



## **HSM Horizontal Baling Presses**

Waste Management and Recycling Solutions for Industry,  
Retailers and Manufacturers



▶ Volume reduction up to 95%

▶ create and sell bales of recyclable material!



## Save on waste costs with volume reduction!

HSM baling presses can reduce the volume of your waste by up to 95%! Which means valuable space is saved on site and you have the opportunity to generate a secondary raw material of sorted bales, which can be incorporated back

into the recycling system. What's more, the baled recycled material has a value which can offset your disposal costs and may even generate a profit.

## HSM quality: The "Made in Germany" seal of approval.

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 the creation of long-lasting products that retain the value of the HSM brand long into the future. The clear belief in German production is a part of

the responsibility that comes with being an integral part of the regional community. In HSM manufacturing plants, motivated and highly-skilled professionals are dedicated to securing the longterm success of HSM.

### Wide range of application:



cardboard



car tyres



PET



expanding foams



stiff plastics



plastic film

Further materials upon request



## Advantages and features:

### Advantages:

- The volume of most packaging material is reduced by up to 95 % in a matter of seconds!
- Application areas: wholesale, manufacturers, logistics, central stores, paper industry, printing plants, distribution centres, food retailers
- Materials: paper, cardboard, plastic film, expanding foams, polystyrene, hollow vessels, metal buckets, barrels, car tyres and much more
- Pressing power: from 80 kN to 700 kN
- Bale weight: up to 850 kg
- Low overall height, large loading aperture, also suitable for bulky material

### Technical features:

- Long service life due to the wear-resistant electro-hydraulic drive
- High throughput capacity with large loading aperture
- Low subsequent costs due to low-maintenance hydraulics
- Smooth, trouble-free operation due to torsion-free press ram guidance with roller bearings
- Easy operation by membrane keypad
- Optimal compression due to retaining claws in the press chamber
- Polythene bag attachment as option
- Feeding: manual or automatic
- Bale strapping: manual, with polyester tape or wire

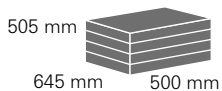


Size doesn't matter!

## HSM 8 TE

In terms of performance, efficiency and flexibility our mobile HSM 8 TE small baler is hard to beat. This compact baling press is extremely easy to operate: insert the strapping tape, switch it on and watch it go! The strapping and ejection of the bales is executed with ease. The complete bale ejection means that the compact bales are ejected by the machine directly onto a pallet and can be easily transported to a storage location.

- Automatic return stroke of press ram after the pressing cycle
- Secured loading flap during compression by encoded solenoid switch
- Convenient bale strapping with continuous polyester tape
- The electronically secured bale removal door with automatic bale unloading provides the highest ease of operation

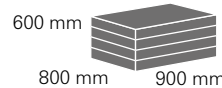


Flexible compactor for voluminous material.

## HSM 12 Gigant

Our HSM 12 Gigant is in its element anywhere where voluminous cardboard packaging, plastic film or other materials need to be pressed. The extremely large loading aperture makes the unit simple and convenient to load. The result is compact bales which can be easily transported. And if the baler is required urgently in another part of the company – no problem: its 4 castors mean that it can be used anywhere at any time.

- The standard hardened chrome-plated piston rod guarantees a long service life
- The hydraulic counter plate provides the highest ease of operation and reliability
- Fast, convenient, 3-fold bale strapping with continuous polyester tape
- The full stroke of the press ram ejects the bale completely



Model	HSM 8 TE	HSM 12 Gigant
Pressing power in kN	80	140
Motor in kW	4	7,5
Voltage / Frequency	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Loading aperture W x L in mm	645 x 730	800 x 1200
Loading height in mm	690	780
Bale weight in kg, depending on material	up to 70	up to 150
Maximum bale size W x H x L in mm	645 x 505 x 500	800 x 600 x 900
Hourly output in bales	4 - 7	3 - 7
Cycle time idle operation (theor.) in sec.	21	30
Dimensions of machine L x W x H in mm	2520 x 780 x 850	4300 x 1030 x 1630
Machine weight in kg	590	1280
Strapping	3-fold with polyester tape	3-fold with polyester tape

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

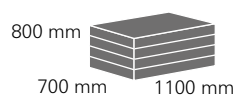


The Keyword is "robust"!

## HSM HL 1615

This all-purpose stationary baler is designed for high loads and completely flattens paper scraps, large cardboard boxes, plastic foils and comparable materials – even rigid paint cans and light metal barrels (up to 200 litres). To handle even extremely one-sided loads in the press chamber, the press ram guidance has a specially large and sturdy construction. Both large loading flaps, which together function as an oversize feeding opening, make it possible to compact voluminous materials simply and quickly without having to manually tear them into smaller pieces beforehand.

- High throughput capacity with large split loading aperture
- The standard hardened chrome-plated piston rod guarantees a long service life
- The hydraulic counterplate provides the highest ease of operation and reliability
- Manual bale strapping with continuous polyester tape
- The full stroke of the press ram ejects the bale completely
- Optimum operator protection provided by lateral protective grating and safety lock for the loading flaps
- Baler can be transported for reassembly



Model	<b>HSM HL 1615</b>
Pressing power in kN	150
Motor in kW	7,5
Voltage / Frequency	3 x 400 V / 50 Hz
Loading aperture W x L in mm	700 x 1500
Loading height in mm	990
Bale weight in kg, depending on material	up to 180
Maximum bale size W x H x L in mm	700 x 800 x 1100
Hourly output in bales	3 - 7
Cycle time idle operation (theor.) in sec.	32
Dimensions of machine L x W x H in mm	4530 x 1100 x 1990
Machine weight in kg	1800
Strapping	4-fold with polyester tape

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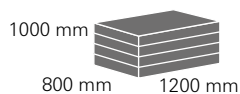


The keyword is versatile

## HSM HL 3521 / HL 3521 S / HL 3521 T

To ensure our customers have the right machine for their needs we have developed three variants of our tried and tested HSM HL 3521 baler. The basic model, the HL 3521, with its exceptionally large loading aperture is the perfect machine for compressing large quantities of paper, cardboard, foils or packaging material and for extremely large and bulky materials. The 6-fold strapping is performed in a manual process with continuous polyester tape or wire. The HL 3521 S has been especially designed for compressing strongly expanding material such as foam. With a powerful 22 kW drive and manual 6-fold strapping with Quick-Link wire, this machine is perfect for compressing difficult materials. The model HL 3521 T can be filled via conveyor and is especially designed to compact tyres. Of course, other packaging materials can also be compressed.

- Hydraulic counterplate for bale removal ensures optimum operating convenience and safety
- The full stroke of the press ram ejects the bale completely
- Stored-program controller PLC
- High levels of compression are ensured by optimally-dimensioned retaining claws
- Optimum operation ensured by the return stroke of the press ram
- Hydraulic loading flap for maximum operating comfort and for precompressing
- Safeguarding of the operating area with protective grid (HL 3521 and HL 3521 T) or infrared light curtains (HL 3521 S) for maximum operator safety
- The unique design and controllable positioning of the press ram allows for easy cleaning and servicing



Model	HSM HL 3521	HSM HL 3521 S	HSM HL 3521 T
Pressing power in kN	320	320	320
Motor in kW	9,2 / 15	22	22
Voltage / Frequency	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Loading aperture W x L in mm	740 x 2100	740 x 2100	740 x 2100
Loading height in mm	1200	1200	1200
Bale weight in kg, depending on material	up to 400	up to 400	up to 850
Maximum bale size W x H x L in mm	800 x 1000 x 1200	800 x 1000 x 1200	800 x 1000 x 1200
Hourly output in bales	3 - 7 / 4 - 7	4 - 7	4 - 7
Cycle time idle operation (theor.) in sec.	46 / 24	21	21
Dimensions of machine L x W x H in mm	6700 x 1650 x 2485	7900 x 1650 x 2485	7900 x 1650 x 2485
Machine weight in kg	4900	5900	6650 kg
Strapping	6-fold with tape or wire	6-fold with wire (tape as option)	5-fold with wire

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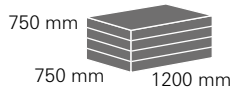
Convenient and powerful

## HSM HL 4010 / HL 4812

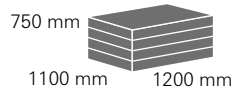
These two baler models have been designed with an operating concept and technical features in mind to make it the optimum machine for food retailers and small central storage facilities. The HL 4010 can be fed continuously and easily via a lifting and tilting device which delivers cardboard from the waste container directly into the press chamber. A hydraulic pre-compactor means that bulky cardboard is dealt with by the machine without difficulty or feeding problems. The HL 4812 can be fed manually or via conveyor. Bale ejection is handled by the machine efficiently and safely with minimum operator effort. All in all a sophisticated solution for small to medium quantities at a great price-performance ratio and high automation level.

- Very low space requirement
- Compresses cardboard and foils
- Convenient filling via hydraulic lifting/tilting device (HL 4010)
- Trolley locking via magnet and position monitoring via sensor (HL 4010)
- Suitable for continuous loading, for example via conveyor (HL 4812)
- Hydraulic counterplate for bale removal ensures optimum operating convenience and safety
- High specific pressing power provides a high compaction of the material and consequently an optimum HGV load
- Intuitive, multilingual operational guidance via graphic description
- Pallet locking mechanism for safe bale removal
- High process reliability

HL 4010



HL 4812



Model	HL 4010	HL 4812
Pressing power in kN	400	480
Motor in kW	7,5 kW + 1,5	15 / 22
Voltage / Frequency	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Loading aperture W x L in mm	690 x 1050	1020 x 1250
Loading height in mm	1130	1460
Bale weight in kg, depending on material	approx. 300	approx. 420
Maximum bale size W x H x L in mm	750 x 750 x 1200	1100 x 750 x 1200
Hourly output in bales	3 - 4	3 - 6
Cycle time idle operation (theor.) in sec.	approx. 56	approx. 37,5 / 27,3
Dimensions of machine L x W x H in mm	5555 x 1689 x 2391	5158 x 1642 bzw. 2192 (bevelled hopper) x 2550
Machine weight in kg	4750	approx. 7000 - 7500
Strapping	3-fold with wire	4-fold with wire

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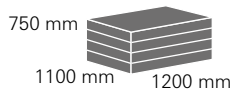
Economic and space-saving

## HSM HL 4809 / HL 7009

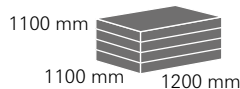
These very compact, horizontal working counter plate presses are suitable for large disposal tasks in retail and in small to medium central storages. The HL 4809 produces bales with a cross-section of 1100 x 750 mm and a weight of up to 430 kg. The bales from a HL 7009 have a cross-section of 1100 x 1100 mm and a bale length of 1200 mm up to 600 kg in weight. Both machines therefore achieve an optimum HGV capacity. With the large bales from the HL 7009, you also save on handling expenses. The integrated hydraulic lifting/tilting device significantly reduces the number of people required to compact the recycling material. Both models are a financial solution, and investments in them quickly pay off.

- Very low space requirement thanks to compact and sturdy design
- Compresses cardboard and plastic foils
- Especially large loading aperture for bulky materials
- Convenient filling via hydraulic lifting/tilting device
- Position monitoring through sensor
- Hydraulic counterplate for bale removal ensures optimum operating convenience and safety
- Optimised bale dimensions and bale weights for efficient truck loading
- High specific pressing power provides a high compaction of the material and consequently an optimum HGV load
- Intuitive, multilingual operational guidance via graphic description
- Pallet locking mechanism for safe bale removal

HL 4809



HL 7009



Model	HSM HL 4809	HSM HL 7009
Motor in kW	9.2 + 1.5	9.2 + 1.5
Voltage / Frequency	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Pressing power in kN	480	700
Specific Pressing power in N/cm <sup>2</sup>	approx.58	approx. 58
Cycle time in idle operation (theor.) of lifting / tilting system in sec.	17	16
Cycle time in idle operation (theor.) incl. lifting / tilting system in sec.	approx. 53 (full stroke), approx. 36 (part stroke)	approx. 46 (full stroke), approx. 32.5 (part stroke)
Loading aperture (W x L) in mm	1020 x 900	1020 x 900
Bale size (W x H x L) in mm	1100 x 750 x approx. 1200	1100 x 1100 x approx. 1200
Bale weight in kg, depending on material in kg (with 1200 mm length)	400 - 430	550 - 600
Strapping, manual	4-fold horizontally with Quick-Link wire	4-fold horizontally with Quick-Link wire
Dimensions of machine (W x D x H) in mm	5635 x 1559 x 2388	5437 x 2093 x 2394
Required space for the machine including pivoting radius of the lifting/tilting system (trolley) and pallet for the bale (W x D x H) in mm	6842 x 1770 x 2970	5744 x 2093 x 2975
Machine weight in kg	approx. 5900	approx. 7700

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# Consumable materials:



## Plastic bags

Item number	Suitable for press models with standard equipment	Dimensions W x D x H in mm	Weight/ 25 pcs. in kg
6205 595 000	8 TE	700 x 620 x 1500	8,3 kg
6214 995 000	12 Gigant / HL 1615	950 x 900 x 1800	12,3 kg



## Eyelet wire

Item number	Suitable for press models with standard equipment	Wire diameter/ length in mm
6135 993 003	HL 3521	3,1 x 3700
6136 993 003	HL 3521	3,1 x 4400



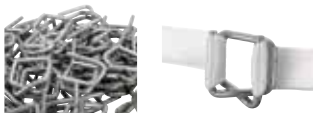
## Quick-Link wire

Item number	Suitable for press models	Wire diameter/ length in mm
6236 993 121	HL 3521 / HL 3521 S	2,95 x 3800
6236 993 131	HL 3521 / HL 3521 S	2,95 x 4000
6236 993 141	HL 3521 / HL 3521 S / HL 3521 T	2,95 x 4200
6236 993 161	HL 3521 / HL 3521 S	2,95 x 4300
6236 993 151	HL 3521 / HL 3521 S	2,95 x 4500
6236 993 124	HL 4010	2,45 x 3800
6236 993 145	HL 7009 / HL 4809 / HL 4812	2,45 x 4400



## Polyester tape

Item number	Suitable for press models with standard equipment	Type	Tensile-strength	Length/ reel	Tape width	Weight/reel
6205 993 010	8 TE	<b>WG 30</b>	280 kg	500 m	8,0 mm	2,2 kg
6212 993 010	12 Gigant	<b>WG 40</b>	380 kg	500 m	11,5 mm	3,3 kg
6314 993 000	HL 1615	<b>WG 45</b>	580 kg	400 m	12,7 mm	3,9 kg
6514 993 000	HL 3521 / HL 3521 S	<b>WG 55</b>	670 kg	400 m	14,6 mm	4,5 kg



## Tape clamps

Item number	Item	Weight/ 1000 pcs in kg
6127 990 101	HSM Tape clamps	12 kg

### Find out more about HSM environmental technology expertise

HSM is one of the leading manufacturers of baling presses and document shredders worldwide. Get to know our whole product range at [www.hsm.eu](http://www.hsm.eu) and ask for our special catalogue.

Simply call, email or send us a fax, we will be happy to help!

## Technical details at a glance:

Modell	Pressing power in kN	Motor in kW	Cycle time when idling (theor.) in sec.	Pressing power when idling (theor.) in m <sup>3</sup> /h	Bale size W x H x L in mm
<b>HSM 8 TE</b>	80	4	21	46	645 x 505 x 500
<b>HSM 12 Gigant</b>	140	7,5	30	75	800 x 600 x 900
<b>HSM HL 1615</b>	150	7,5	32	101	700 x 800 x 1100
<b>HSM HL 3521</b>	320	9,2 / 15	46 / 24	176 / 275	800 x 1000 x 1200
<b>HSM HL 3521 S</b>	320	22	21	317	800 x 1000 x 1200
<b>HSM HL 3521 T</b>	320	22	21	317	800 x 1000 x 1200
<b>HSM HL 4010</b>	400	7,5 + 1,5	40	54	750 x 750 x 1100
<b>HSM HL 4812</b>	480	15 / 22	approx. 37,5 / 27,3	95 / 130	1100 x 750 x 1200
<b>HSM HL 4809</b>	480	9,2 + 1,5	53 / 36	50 / 74	1100 x 750 x approx. 1200
<b>HSM HL 7009</b>	700	9,2 + 1,5	46 / 32,5	87 / 123	1100 x 1100 x approx. 1200



## Explanations of the technical data:

Pressing power:	Cylinder piston surface multiplied by the maximum hydraulic pressure (theoretical value).
Motor:	Rated power of driving motor.
Voltage / Frequency:	Three-phase power supply.
Loading aperture:	Size of the opening through which material can be loaded.
Loading height:	Height from floor to loading edge.
Bale weight:	The bale weight varies depending on the type, humidity and condition of the compressed material and the bale length or height.
Bale size:	The height/length of the bales varies depending on the expansion force of the compressed material.
Hourly output:	The hourly output depends on the type and quantity of the material to be compressed, on the number of persons loading the machine, on the frequency of use and on which options have been selected. Basically horizontal baling presses are not made for uninterrupted service.
Cycle time in idle operation (theor.):	The time it takes for the press ram to move down without material and return idling to the home position. The cycle time does not depend on the material.
Volume throughput in idle operation (theor.):	The maximum volume that can be theoretically pressed in one hour without interruption of the pressing procedure for loading or strapping. It is calculated by dividing the press chamber volume by the pressing time.
Press chamber size:	The press chamber is the space below the press ram in the home position.
Dimensions of machine:	External dimensions of the machine when set up for operation.
Transport height:	Height for moving to the installation site (without hand pallet truck).
Machine weight:	Net weight of the machine without packaging, loaded material or options.
Strapping:	The number of times the bales are strapped.

Bale weight in kg	Hourly output in bales	Strapping x times	Loading hatch W x H (mm)	Loading height in mm	Machine dimensions W x D x H in mm	Machine weight in kg
up to 70	4 - 7	3	645 x 730	690	2520 x 780 x 850	590
up to 150	3 - 7	3	800 x 1200	780	4300 x 1030 x 1630	1280
up to 180	3 - 7	3 / 4	700 x 1500	990	4530 x 1100 x 1990	1700/1800
up to 400	3 - 7 / 4 - 7	6	740 x 2100	1200	6700 x 1650 x 2485	4900
up to 400	4 - 7	6	740 x 2100	1200	7900 x 1650 x 2485	5900
up to 850	4 - 7	5	740 x 2100	1200	7900 x 1650 x 2485	approx. 6650
up to 300	3 - 4	3	690 x 1050	-	5555 x 1689 x 2391	4450
up to 420	3 - 6	4	1020 x 1250	1460	5158 x 1642 bzw. 2192 (bevelled hopper) x 2550	approx. 7000 - 7500
up to 430	2 - 3	4	1020 x 900	-	5635 x 1559 x 2388	approx. 5900
up to 600	2 - 3	4	1020 x 900	-	5437 x 2093 x 2394	approx. 7700



## Experience HSM's quality and service!

### Which is the right baling press for you?

It is not always easy to decide which is the right system for a particular disposal task. We have specialists and dealers all over the world who can analyse your needs on site and give you detailed advice. Only then can you be sure that you will get the right baler to suit your specific requirements.

### When does a baling press start paying for itself?

Are you wondering what financial benefits a baling press might have over your existing disposal system? We will calculate the costs you will save by using a baling press rather than external disposal for your individual situation.

### What quality can I expect from HSM?

We build high-quality, reliable products to the highest standards of German engineering. In order to meet these standards, we produce the majority of components ourselves, and are certified according to DIN EN ISO 9001.

### How long is my warranty?

All our baling presses have a one-year warranty (in single-shift operation).



### And if something does go wrong?

We certainly won't leave you alone. Our service guarantees personal support in all service issues – before and after purchase! Our agents and trading partners provide advice and assistance in many countries worldwide.

### HSM all-round service . . .

... ensures that you no longer have to worry about maintenance prevention. HSM offers service contracts for every need – for the long service life of your press and to save you money.

### Renting our baling presses?

HSM gives you the option of renting our baling presses. There are various possibilities which our sales team will be happy to explain.

### Any special wishes?

Some materials place special demands on a baling press, HSM offers various versions to meet these requirements. Special solutions are also available on request.

# 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.**

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