

ENVIRONMENTAL
TECHNOLOGY

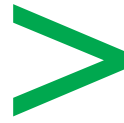
HSM Baling Presses

Product Overview

HSM[®]



**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%! That means you can save valuable space which would otherwise be taken up at your site, plus, you will benefit from the generation of a secondary and valuable raw material – baled

recyclable waste! Heavier bales are more valuable and are likely to return a financial benefit back to your business when collected by Waste Management companies or Recyclers - either as a reduced cost of disposal or at best as an income stream.

Before and after



Cardboard bale



Plastic foil bale



Stiff plastic bale



PET/UBC bale

Balers "Made in Germany"

Quality "Made in Germany"

- HSM places its trust in Germany as a production location and operates four production plants in Germany for office products and environmental technology.
- Users equate "Made in Germany" with precision, longevity and a fair price/benefit ratio.
- We constantly seek for further improvement. HSM has more than 170 national and international patents for many clever and often crucial technical details.
- Our satisfied customers are proof of our success.

Service worthy of the name:

- HSM is represented with subsidiaries and partners in more than 100 countries. Therefore HSM can guarantee the service of your baler before and after you purchase it.



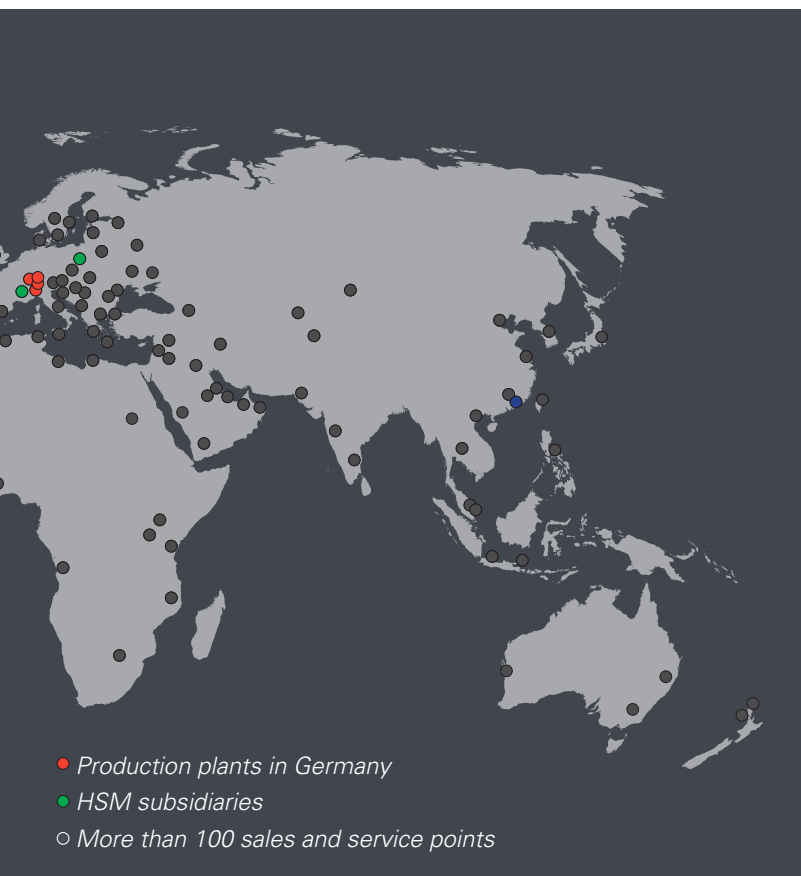
Which baling press is the right one for your company?

One thing is sure: you will find the right baler to meet your requirements in the wide range of baling presses available. Basically, every HSM baler is suitable for cardboard, paper and foil. Aside from this, PET/UBC bottles, stiff plastics, car tyres, textiles etc, can also be efficiently compressed by some models. The most important selection criteria for the right HSM baling press are:

- **The type of material to be pressed**
- **Material load**
- **Space availability**
- **Degree of automation**

To guide you through the different types of presses, the main distinguishing features are briefly outlined here:

	HSM Vertical Baling Presses	HSM Horizontal Baling Presses	HSM Channel Baling Presses
Type of material	cardboard, paper, foils, stiff plastics, PET/UBC	cardboard, paper, foils etc., especially suitable for bulky and strongly expanding material	suitable for nearly all materials
Material load	small to medium material loads	medium material loads	medium to large material loads
Space requirements	compact and space-saving	larger footprint, low overall height	large footprint, individual project planning
Compression direction	from top to bottom	from right side to left side or left side to right side	from right side to left side or left side to right side
Degree of automation	manual feeding, manual strapping	automatic feeding possible, manual strapping	automatic, continuous feeding possible, automatic strapping, optional manual
Application areas	retailers, trading, manufacturers, central storages, industry, distribution centres, logistics	trading, manufacturers, logistics, central storages, paper industry, printing plants, disposal companies	logistics, central storages, paper industry, printing plants, distribution centres, industry, disposal companies



***HSM Vertical Baling Presses –
compact, space-saving and reliable***





HSM V-Press 840

General characteristics:

- **Application areas:** retailers, trading, manufacturers, central storages, industry, distribution centres, logistics
- **Suitable for the following material:** cardboard, paper, foil
Further materials upon request (e.g. polystyrene, cans, PET/UBC, stiff plastics, etc.)
- **Pressing power** from 40 kN to 540 kN
- **Bale weight** from 40 kg to 550 kg
- **Low space requirement**
- **Feeding:** manual
- **Bale strapping:** manual, with polyester tape or wire cut to length

HSM V-Press

HSM baling presses range with many advantages

- Attractive cost/performance ratio
- Service to fit your needs – large model variety
- Optimal bale sizes and weights – for perfect HGV load utilisation and reduction on transport costs
- Easy-to-use
- High operational flexibility – selectable programmes for pressing cardboard or foils
- Innovative control system ensure long service life
- High throughput rates
- Three configurations available eco, plus und max



HSM MKP 80

HSM Multiple chamber balers

Several chambers for different materials

- Parallel, sorted pressing of various materials
- Any number of chambers can be suggested as required
- Safe, enclosed design
- Low-maintenance, durable electro-hydraulics
- Easy operation

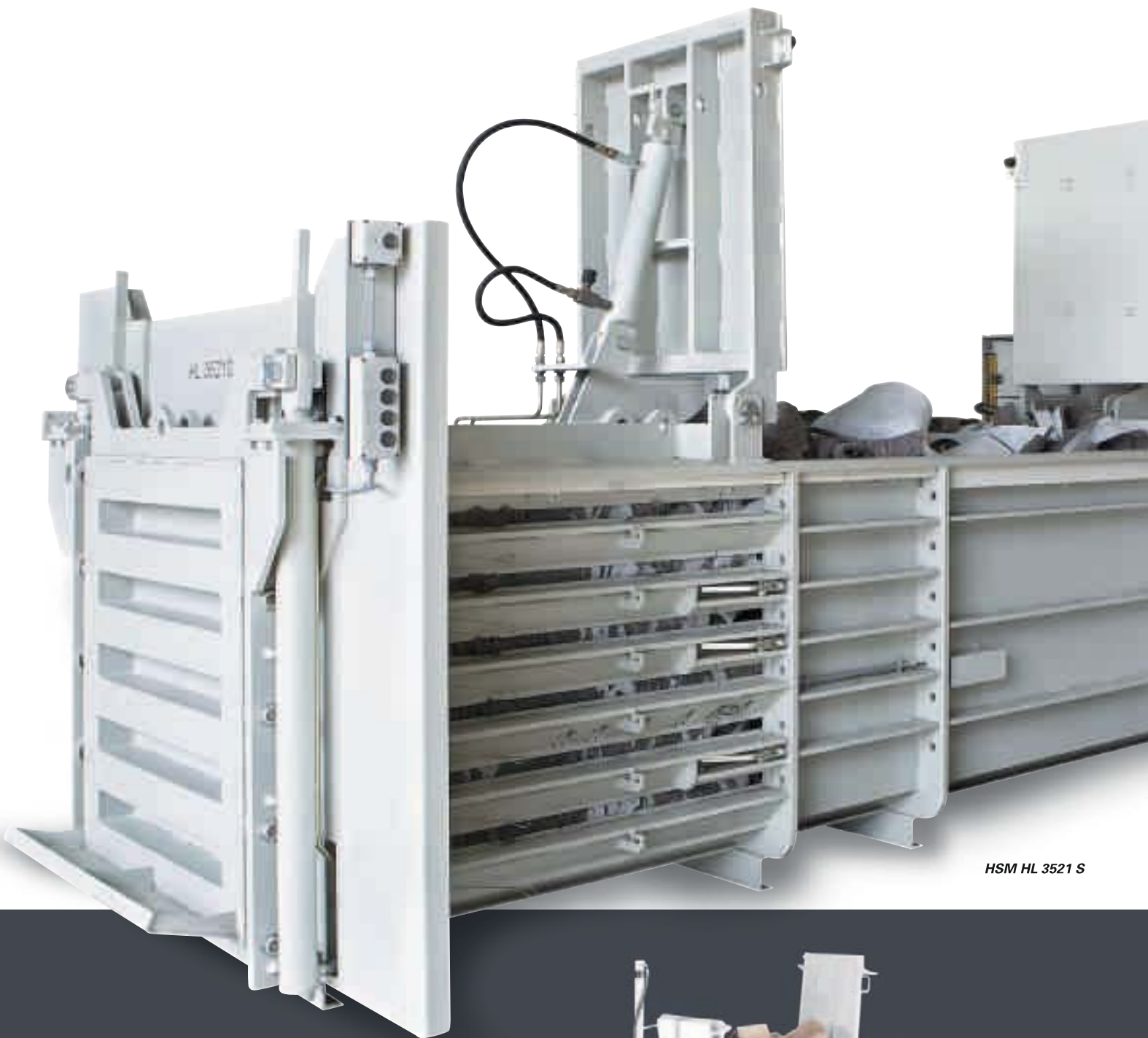
HSM Barrel Presses

Short cycle times and very easy handling

- Very sturdy and powerful
- With 270 kN pressing power
- Suitable for light metal and rolled hoop barrels
- Also available in EEx version according to CE Ex II 2 G EExde II CT4
- High throughput – up to 50 barrels per hour
- With sump tray for residual fluid
- Front inspection window



HSM FP 3000



HSM HL 3521 S

HSM HL 3521 / HL 3521 S

A professional baler with pre-compactors for universal use. Can even compress very expansive foams and bulky material, also for awkward materials e.g. car tyres.



HSM HL 1615

A sturdy stationary baling press. Presses waste paper, large cardboard boxes, plastic foils, buckets, light metal barrels up to 200 litres and other waste without prior shredding.



General characteristics:

- *Application areas: trading, manufacturers, logistics, central storages, paper industry, printing plants, disposal companies*
- *Suitable for the following material: paper, cardboard, foils, expanding foams, polystyrene, hollow vessels, metal buckets, barrels, car tyres and much more*
- *Pressing power from 80 kN to 320 kN*
- *Bale weight up to 600 kg*
- *Large loading aperture*
- *Compaction against counterplate by horizontal moving press ram*
- *Feeding: manual or automatic*
- *Bale strapping: manual, with polyester tape or wire (HSM HL 3521)*
- *Advantage: low overall height, also suitable for bulky material*

HSM Horizontal Baling Presses – for many different materials



HSM 12 Gigant

*The powerful baling press for voluminous material.
Compression ratio up to 20:1.*



HSM 8 TE

A hugely powerful and versatile small baler. Presses paper, cardboard, paperboard, newspapers and plastic packaging in seconds, thus helping reduce waste and costs.



HSM Fully Automatic Channel Baling Presses – individual system solutions, custom disposal systems

General characteristics

- *Application areas: logistics, central storages, paper industry, printing plants, distribution centres, industry, disposal companies*
- *Suitable for the following material: cardboard, paper, foils (PPK), DSD, PET/UBC, composite materials and more*
- *Feeding: mainly continuous feeding via several systems (e.g. conveyor-belt, forklift, suction system etc.)*
- *Fully automatic compression and bale strapping*
- *Up to 1,200 kN pressing power*
- *Bale weights up to 1,100 kg/m³*
- *All kinds of feeding possible*
- *Innovative detailed solutions bring decisive benefits*



HSM VK 7215 used in industry



HSM VK 5512 used at central storage



Control unit with touchscreen



Fully automatic strapping, tiltable for maximum ease of service



Press channel adjustment



Powerful hydraulics

Options:

- Pre-compactor for increased throughput
- Oil cooler for continuous operation and high load
- Control cabinet, tank heating
- Remote service

Technical details at a glance

HSM Vertical Baling Presses

Model	Version	Pressing power in kN	Motor in kW	Cycle time when idling (theor.) in seconds	Pressing power when idling (theor.) in m ³ /h	Bale size L x W x H in mm	Bale weight in kg	Hourly output in bales	Loading aperture W x H (mm)	Machine dimensions W x D x H in mm
HSM V-Press 60		-	-	-	-	800 x 600 x max. 800	up to 40	-	740 x 635	810 x 735 x 1280
HSM V-Press 504		40	1.1	27	37	700 x 500 x max. 600	up to 50	3 - 6	700 x 470	888 x 787 x 1922
HSM V-Press 605		57	1.5	21	60	800 x 600 x max. 600	up to 70	3 - 6	800 x 495	1190 x 815 x 1980
HSM V-Press 610		120	3.0	22	58	800 x 600 x max. 600	up to 100	3 - 6	800 x 495	1190 x 815 x 1980
HSM V-Press 818	eco	185	3.0	35	68	1200 x 780 x max. 700	up to 200	2 - 5	1195 x 541	1700 x 1046 x 2370
	plus	185	3.0	35	68	1200 x 780 x max. 700	up to 200	2 - 5	1195 x 530	1700 x 1046 x 2370
HSM V-Press 820	eco	178	4.0	23	111	1200 x 780 x max. 1000	up to 250	2 - 5	1195 x 610	1700 x 1075 x 2470
	plus	178	4.0	23	111	1200 x 780 x max. 1000	up to 250	2 - 5	1195 x 558	1700 x 1075 x 2470
HSM V-Press 825	eco	250	3.0	35	68	1200 x 780 x max. 700	up to 280	2 - 5	1195 x 541	1700 x 1046 x 2370
	plus	250	3.0	35	68	1200 x 780 x max. 700	up to 280	2 - 5	1195 x 530	1700 x 1046 x 2370
HSM V-Press 840	eco	356	4.0	44	58	1200 x 780 x max. 1200	up to 360	1 - 2	1195 x 650	1780 x 1069 x 2985
	plus	356	4.0	44	58	1200 x 780 x max. 1200	up to 360	1 - 2	1195 x 650	1780 x 1247 x 2985
	max	356	4.0	44	58	1200 x 780 x max. 1200	up to 360	1 - 2	1195 x 650	1780 x 1247 x 2985
HSM V-Press 860	eco	532	7.5	46	57	1200 x 780 x max. 1200	up to 480	1 - 2	1195 x 650	1797 x 1070 x 2985
	plus	532	7.5	46	57	1200 x 780 x max. 1200	up to 480	1 - 2	1195 x 650	1797 x 1247 x 2985
	max	532	7.5	46	57	1200 x 780 x max. 1200	up to 480	1 - 2	1195 x 650	1797 x 1247 x 2985
	L	532	7.5	46	57	1200 x 780 x max. 1200	up to 460	1 - 2	1195 x 650	1797 x 1247 x 2985
	P	418	7.5	46	57	1200 x 780 x max. 1200	up to 230	1 - 2	1195 x 650	1797 x 1273 x 2985
	S	418	7.5	46	57	1200 x 780 x max. 1200	depending on material	1 - 2	1195 x 650	1797 x 1076 x 2985
HSM V-Press 1160	eco	532	7.5	46	78	1200 x 1100 x max. 1200	up to 550	1 - 2	1195 x 650	1780 x 1388 x 2990
	plus	532	7.5	46	78	1200 x 1100 x max. 1200	up to 550	1 - 2	1195 x 650	1780 x 1568 x 2990
	max	532	7.5	46	78	1200 x 1100 x max. 1200	up to 550	1 - 2	1195 x 650	1780 x 1568 x 2995
HSM FP 3000		270	7.5	33	-	-	-	up to 50	-	1168 x 960 x 2892
HSM MKP 80		75	2.2	24	32	700 x 500 x max. 800	up to 80	2 - 4	700 x 500	1820 x 1120 x 2170

HSM Horizontal Baling Presses

Model	Pressing power in kN	Motor in kW	Cycle time when idling (theor.) in seconds	Pressing power when idling (theor.) in m ³ /h	Bale size W x H x L	Bale weight in kg	Hourly output in bales	Loading aperture W x L (mm)	Machine dimensions L x W x H in mm
HSM 8 TE	80	4.0	21	46	645 x 505 x 500	up to 70	4 - 7	645 x 730	2520 x 780 x 850
HSM 12 Gigant	140	7.5	30	75	800 x 600 x 900	up to 150	3 - 7	800 x 1200	4300 x 1030 x 1630
HSM HL 1615	150	7.5	32	101	700 x 800 x 1100	up to 180	3 - 7	700 x 1500	4530 x 1100 x 1990
HSM HL 3521	320	9.5 / 15	46 / 24	176 / 275	800 x 1000 x 1200	up to 600	3 - 7 / 4 - 7	740 x 2100	6700 x 1650 x 2485
HSM HL 3521 S	320	22	21	317	800 x 1000 x 1200	up to 500	4 - 7	740 x 2100	7900 x 1650 x 2485

HSM Channel Baling Presses with manual strapping

Model	Pressing power in kN	Specific Pressing power in N/cm ²	Main driving power in kW	Cycle time when idling (theor.) in seconds	Pressing power when idling (theor.) in m ³ /h	Bale weight in kg	Bale/channel cross-section W x H in mm	Strapping x-fold	Loading aperture W x H (mm)	Weight in t
HSM AK 807	82	32.8	4	17.6	36	30-60 (600 mm)	500 x 500	3	450 x 710	1.0
HSM AK 4014 V / AK 4014 V RL	400	70	7.5	37	93	up to 300	750 x 750	3	670 x 1315	4.4

If you want to know more about our comprehensive range of baling presses, order our special catalogues. Of course, we are happy to talk to you in person. Just call us, e-mail us or send us a fax.



HSM Fully Automatic Channel Baling Presses

Model	Pressing power in kN	Specific Pressing power in N/cm ²	Main driving power in kW	Cycle time when idling (theor.) in seconds	Pressing power when idling (theor.) in m ³ /h	Bale weight in kg	Bale/channel cross-section W x H in mm	Strapping x-fold	Loading aperture W x L in mm	Weight in t
HSM VK 1005	110	44.4	7,5	8.4	50	60 - 120 (1000 mm)	550 x 450	3	500 x 475	1.2
HSM VK 1206	160	45.7	9,2	8.2	92	100 - 200	700 x 500	3	620 x 600	3.5
HSM VK 1210	160	45.7	9,2	11.5	110	100 - 200	700 x 500	3	620 x 1000	4.0
HSM VK 2012	240	42.9	9,2 / 15	19.6 / 10.7	117 / 214	170 - 300	700 x 800	4	620 x 1140	5.0
HSM VK 2306	240	68.6	9,2 / 15	12.3 / 6.7	62 / 113	140 - 250	700 x 500	3	620 x 600	3.8
HSM VK 2310	240	68.6	9,2 / 15	17.2 / 9.4	73 / 134	140 - 250	700 x 500	3	620 x 1000	4.0
HSM VK 3008	310	55.4	15 / 22	11.3 / 8.2	143 / 197	190 - 350	700 x 800	4	620 x 800	6.3
HSM VK 3012	310	55.4	15 / 22	13.9 / 10.1	166 / 228	190 - 350	700 x 800	4	620 x 1140	6.3
HSM VK 4012	450	69.4	15 / 22	16.7 / 12.2	174 / 239	250 - 400	900 x 720	3	820 x 1250	7.0
HSM VK 4208	420	75	22 / 30	10.3 / 7.5	157 / 216	220 - 420	700 x 800	4	620 x 800	6.3
HSM VK 4212	420	75	15 / 22 / 30	17.4 / 12.7 / 9.2	132 / 181 / 251	220 - 420	700 x 800	4	620 x 1140	6.3
HSM VK 4812	480	58.2	15 / 22 / 30	21.2 / 15.4 / 11.2	175 / 240 / 332	300 - 550	1100 x 750	4	1020 x 1250	10.0
HSM VK 4812 V	480	58.2	15 / 22 / 30	24.5 / 18.2 / 13.8	151 / 204 / 268	300 - 550	1100 x 750	4	1020 x 1250	10.0
HSM VK 5512	560	67.9	22 / 30 / 45	21.7 / 15.7 / 11	171 / 236 / 338	300 - 550	1100 x 750	5	990 x 1250	17.5
	560	67.9	55 (with FC 45)	8.7	425	300 - 550	1100 x 750	5	990 x 1250	17.5
	560	67.9	75 (with FC 55)	6.9	535	300 - 550	1100 x 750	5	990 x 1250	17.5
HSM VK 6015	580	111.9	30 / 45	17.2 / 12	163 / 233	250 - 450	720 x 720	4	640 x 1500	15.5
	580	111.9	55 (with FC 45)	9.6	293	250 - 450	720 x 720	4	640 x 1500	15.5
	720	138.9	30 / 45	21.8 / 15.2	128 / 184	260 - 470	720 x 720	4	640 x 1500	15.5
	720	138.9	55 (with FC 45)	12.1	231	260 - 470	720 x 720	4	640 x 1500	15.5
	720	138.9	75 (with FC 55)	9.6	291	260 - 470	720 x 720	4	640 x 1500	15.5
HSM VK 7215	720	87.3	55 (with FC 45)	13.2	339	340 - 620	1100 x 750	5	990 x 1500	24.0
	720	87.3	75 (with FC 55)	10.5	426	340 - 620	1100 x 750	5	990 x 1500	24.0
	720	87.3	90 (with FC 75)	9	498	340 - 620	1100 x 750	5	990 x 1500	24.0
HSM VK 8818	880	106.7	90 (with FC 75)	12.8	417	500 - 700	1100 x 750	5	990 x 1800	30.0
	880	106.7	90+45 (with FC 2x45)	8.3	643	500 - 700	1100 x 750	5	990 x 1800	30.0
	1000	120	90 (with FC 75)	12	446	550 - 800	1100 x 750	5	990 x 1800	30.0
	1000	120	90+45 (with FC 2x45)	8.2	649	550 - 800	1100 x 750	5	990 x 1800	30.0
HSM VK 12018	1200	99.2	90 (with FC 75)	14.7	533	700 - 1100	1100 x 1100	5	990 x 1800	38.0
	1200	99.2	90 + 55 (with FC 2x55)	8.8	887	700 - 1100	1100 x 1100	5	990 x 1800	38.0
	1200	99.2	90 + 90 (with FC 2x75)	7.2	1082	700 - 1100	1100 x 1100	5	990 x 1800	38.0

Explanations of the technical data:

- Pressing power *Cylinder piston surface multiplied with the maximum hydraulic pressure (theoretical value).*
- Specific pressing power *Force in N acting on 1 cm² of the material to be compressed.*
- Motor *Rated power of driving motor.*
- FC *Frequency-controlled drive.*
- Main driving power *Rated power of baler driving motor without additional aggregates (e.g. oil cooler).*
- Voltage / frequency *Three-phase current power supply, 3 x 400 V / 50 Hz.*
- Cycle time in idle operation (theor.) *The time it takes for the press ram to move forward/down without material and return idling to the home position. The pressing time does not depend on 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.*
- Bale size *The height/length of the bales varies depending to the expansion force of the compressed material.*
- Bale weight *The bale weight varies depending on the type, humidity and condition of the compressed material and on bale length/height.*
- Hourly output *The hourly output depends on the type and quantity of the material to be pressed, the type of barrel, the quantity of barrels and on the number of persons loading the machine.*
- Barrel type *Pressing rolled hoop or light metal barrels.*
- Barrel size *The maximum size of barrel which can be pressed.*
- Strapping *Information concerning the number of times the bales are strapped.*
- Bale / channel cross-section *Width x height of bale or of press channel.*
- Loading aperture *Size of the opening through which material can be loaded.*
- Dimensions of machine *External dimensions of the machine when set up for operation.*
- Weight *Net weight of machine without packaging, loaded material, feeding system or options.*

Practical volume throughput The practical volume throughput is up to 70 % of the theoretical volume throughput and depends on the loading method, the bulk weight, the type of material and control delays.

Bulk weight Weight of the loaded material per cubic meter. The bulk weight affects the volume throughput.

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.

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