



# **Horizontal Balers**

## **PRODUCT GUIDE**

ACM Horizontal Balers can play an invaluable part in any recycling programme, allowing large volumes of recyclable material to be compacted into bales for easy storage, transport and further processing.

## What do ACM Horizontal Balers offer?

- ACM's Horizontal Balers are capable of producing a high volume of medium to large-sized bales of a consistent density and weight every day. Depending on the model, the condensing process is achieved via either one or two rams exerting an exceptional compacting force of between 50 and 60 tonnes.
- Recyclable waste is introduced into the hopper until it is full, after which the waste is compressed by the rams until the bale is formed to the specified dimensions. The bale is then tied with wires and ejected from the side of the baler.
- As well as performing a vital waste management role with the major environmental benefit of saving waste from landfill, baled recyclable material can also provide businesses with an invaluable revenue stream.

### WHO USES HORIZONTAL BALERS?

ACM Horizontal Balers are used by a variety of high volume producers and processors of recyclables, including:

- Local authorities
- Solid waste, plastic and paper recycling facilities
- Shopping centres, supermarkets and retailers
- Manufacturers and industrial operations
- Distribution companies and bulk material producers
- Paper mills and textile companies

### FEATURES OF ACM HORIZONTAL BALERS

ACM Environmental provides a wide range of Horizontal Baler designs and sizes and can also supply bespoke units when required. Common features include:

- Sheer blade on top of press plate, allowing material to be easily cut after feeding
- Sophisticated control panel including Jamming and Bale Full warning indicators
- Automatic cut-out when bale is full
- Dual Monitored Category 3 Safety Circuit
- Emergency stop on either side of hopper
- Magic Eye Start (3 second delay)
- CE compliant

### ACM ENVIRONMENTAL SERVICE COMMITMENT?

With 25 years of waste management experience, we provide a nationwide collection service and a sustainable licensed recycling solution with full traceability for all types of commercial waste producer. ACM Environmental can provide a single port of call for all your waste management demands.

## Horizontal Balers Range

ACM offers a range of eight Horizontal Balers, each offering a range of specific features and benefits. The table below includes technical specifications for the full range, while the page opposite outlines the key benefits of four of our best-selling products.

## Horizontal Balers TECHNICAL SPECIFICATION

Technical Specifications	ACM 400HFE	ACM 450H	ACM 450HFE (full eject)
Machine dimensions* HxWxL (mm) +/- 20mm	1790x1600x4650	1370x1780x5390	1370x1780x6340
Hopper	Hand Fed 1.2m wide	Hand Fed 1.4m wide or flared hopper 2.2m wide	Hand Fed 1.4m wide or flared hopper 2.2m wide
Approx. machine weight (kg)	4500	4920	5420
Feed Opening LxW (mm)	675x1040	1400x1040	1400x1040
Approx. Bale Size HxWxL (mm)	750x1150x1100	750x1150x1200	750x1150x1200
Approx. Bale Weight (cardboard) (kg)	Up to 450	Up to 500	Up to 500
Throughput m <sup>3</sup> /hour **	50m <sup>3</sup>	62m <sup>3</sup>	62m <sup>3</sup>
Bale Wire (black annealed)	3.5mm dia 4.6m long	3.5mm dia 4.6m long	3.5mm dia 4.6m long
Number of Wires/Tying Direction	4/ Vertical	4/ Vertical	4/ Vertical
Ejection Method	Full bale eject	2nd bale discharge	Full bale eject
Number of Rams	2	2	2
Compaction Force	50 tonne	50 tonne	50 tonne
Standard Motor Power/Cycle Time (based on empty chamber)	7.5kW (86 sec cycle time)	7.5kW (86 sec cycle time)	7.5kW (86 sec cycle time)
Optional Motor Power/Cycle Time (based on empty chamber)	11kW (60 sec cycle time)	11kW (60 sec cycle time)	11kW (60 sec cycle time)
Running Current	20A (7.5kW), 27A (11kW), 35A (15kW)	20A (7.5kW), 27A (11kW), 35A (15kW)	20A (7.5kW), 27A (11kW), 35A (15kW)
Current	32A (7.5kW), 32A (11kW), 64A (15kW)	32A (7.5kW), 32A (11kW), 64A (15kW)	32A (7.5kW), 32A (11kW), 64A (15kW)
Internal Control Circuit	24DC	24DC	24DC
Door Closer (options available)	Turn Buckle with Ratchet	Turn Buckle with Ratchet	Turn Buckle with Ratchet
Access for Forklift/Crane	4 lifting lugs	4 lifting lugs	4 lifting lugs

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### ACM 400 HFE

- Smallest baler in the ACM range, ideal for volume reduction of small items such as boxes and air-blown material
- Produces bales up to 450Kg
- Press plate extends whole way to door, so very dense mill-sized bales can be produced
- Bale is fully discharged from chamber after tying, making it easy to switch from one material to another



### ACM 450 HFE

- Bales of up to 500Kg can be produced
- Full bale discharge enables material to be changed without bale contamination
- Full eject system saves processing time - it does not rely on the next batch of material to discharge the bale



### ACM 600HFE-PC

- Extremely versatile, featuring a 5-wire horizontal tying system
- Produces card bales up to 600Kg and plastic film bales up to 700Kg
- Full eject baler with portcullis door for easy operation
- Can process up to 2 tonnes per hour and its excellent shearing system makes it ideal for processing heavy duty material



### ACM 850HFE-75T

- Largest baler in ACM's range
- High compaction force can produce high density bales of cardboard up to 800Kg
- Excellent for baling hard plastic
- Full eject baler with portcullis door for easy operation
- Throughput of 3 tonnes per hour
- Large hopper opening allows for easy feeding of large volumes of waste via loading shovel or conveyor



Notes: \* Height to top of powerpack, hopper additional. Machine heights to top of standard hopper, approx. 2.5m.  
 \*\* Theoretical based on 15kW motor. ACM reserve the right to alter specification without prior notice.

ACM 600H	ACM 600HXL	ACM 600HFE-PC	ACM 850H	ACM 850HFE-PC
1600x1410x5720	1600x1410x7150	2450x1440x7420	1570x1750x7510	2510x1780x8220
Hand Fed 1.3m wide or flared hopper 2.4m wide	Flared hopper 3m wide	Flared hopper 3m wide	Flared hopper 3m wide	Flared hopper 2.7m wide
4650	5050	5130	5980	7250
1360x720	1900x720	1500x720	2000x1050	1750x1050
1080x750x1500	1080x750x1500	1080x750x1500	1080x1090x2000	1080x1090x1750
Up to 600	Up to 600kg	Up to 600kg	Up to 1000kg	Up to 800kg
61m <sup>3</sup>	85m <sup>3</sup>	85m <sup>3</sup>	125m <sup>3</sup>	112m <sup>3</sup>
3.5mm dia 4.6m long	3.5mm dia 4.6m long	3.5mm dia 4.6m long	3.5mm dia 4.6m long	3.5mm dia 4.6m long
5/ Horizontal	5/ Horizontal	5/ Horizontal	5/ Horizontal	5/ Horizontal
2nd bale discharge	2nd bale discharge	Full bale eject	2nd bale discharge	Full bale eject
2	1	1	1	1
50 tonne	60 tonne	50 tonne	60 tonne	52 tonne
15kW (49 sec cycle time)	15kW (54 sec cycle time)	15kW (45 sec cycle time)	15kW (50 sec cycle time)	15kW (47 sec cycle time)
N/A	22kW (34 sec cycle time)	22kW (30 sec cycle time)	22kW (35 sec cycle time)	22kW (32 sec cycle time)
20A (7.5kW), 27A (11kW), 35A (15kW)	35A (15kW)	35A (15kW)	35A (15kW)	35A (15kW)
64A (15kW)	64A (15kW)	64A (15kW)	64A (15kW)	64A (15kW)
24DC	24DC	24DC	24DC	24DC
Hydraulic Door Ram	Hydraulic Door Ram	Hydraulic Door Ram	Hydraulic Door Ram	Portcullis Door
4 lifting lugs	4 lifting lugs	4 lifting lugs	4 lifting lugs	4 lifting lugs

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## **Other Core ACM Products**

### **PORTABLE COMPACTORS**

Designed to minimise use of space and to be used close to where waste is generated

### **STATIC COMPACTORS**

Suitable for disposing of large quantities of waste economically

### **ROLL PACKERS**

Ideal for compacting large, bulky and medium density materials

### **MID RANGE BALERS**

Space saving and highly efficient recyclers for any material

### **MILL SIZE BALERS**

Produces mill-sized bales for optimum financial return



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