

# Middleton HB50HM horizontal baler

Designed and built in Somerset · fully automatic · ideal for low-headroom situations · simple to operate · rugged design · bales PET, board, paper including end-of-reels



*Heron Frozen Foods run 132 stores from Birmingham north to Newcastle and Manchester, selling branded frozen foods as well as chilled and dry goods. "We were impressed with this model, particularly after visiting another installation at JJB Sports at Wigan."*

This horizontal, fully automatic baler is ideal for low headroom locations and has an output of 6 – 7 tonnes an hour. Designed and built entirely in-house, the design incorporates many features learnt from installing and servicing heavy industrial balers over the past thirty years. Easy to install and operate it has a better than twenty year life. The initial prototype worked for 24 hours a day for six months – stopping only for Sundays – at Georgia-Pacific's Bolton mill.

A complete feed conveyor and roller tracking system can be designed to fit your requirements, including the *Safetech* safety system for conveyors.

#### Brief specification:

- Overall height: 2820mm, length: 6800mm, width: 1722mm
- Capacity: 6 - 7 tonnes /hour
- Fully automatic
- Designed for easy maintenance
- Special features: complete easy to follow fault diagnostic central control panel, wire break detector.

#### Clients with this baler include:

TJ Hughes (Liverpool: x 2)  
Somerfield (East Kilbride and Pitreavie)  
Tetrapak (Wrexham)  
Biffa Waste Services (Oxted)  
Southern Co-op (Fareham)  
Proctor & Gamble (Manchester)  
Tesco Stores (Daventry x 2)  
Western Corrugated (Cwmbran)  
Bailey Waste (Ireland)  
Worktvice (Homebase, North'ton)  
Midlands Co-op (Leicester)  
JJB Sports (Liverpool x 2)  
Ocado (Waitrose, Hatfield)  
Encase Corrugated (Banbury)  
Heron Frozen Foods (Hull)  
The Range (Mitcheldean)  
Otto UK (Bradford)  
SCA (Prudhoe: x 2)



*Another view of the baler at Heron Frozen Foods, Hull.*



*Tetrapak at Wrexham use their HB50 for baling waste plastic and off-cuts from their well-known cartons.*



*Proctor and Gamble's HB50 is shown here near completion. Full testing is carried out in our Somerset workshops before installation.*



*End on view of the Southern Co-op installation.*

## MIDDLETON ENGINEERING Ltd

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Here we show two HB50s being built in our workshops near Glastonbury. It has proved to be a most successful design popular with customers and our engineers alike. In most cases conveyor and roller tracking systems have also been purpose built and fitted to customer requirements.



## Technical data HB50

Volume capacity	140m <sup>3</sup> /h
Dimensions (without conveyor)	
Overall height:	2820mm
Length:	6800mm
Width:	1722mm
Electric motor	22k/w
Output with a feeding density of:	
30kg/m <sup>3</sup>	6 tonnes/hr
50kg/m <sup>3</sup>	7 tonnes/hr
Feed opening	1500mm x 1100mm
Press force	60 tonnes
Specific pressure	6.4 kn/cm <sup>2</sup>
Press chamber volume	1.418m <sup>3</sup>
Bale size	1100mm x 720mm
Bale weight	450 kgs – 550 kgs
Volume weight	360 kgs – 445 kgs
Number of strapping wires	5
Oil tank capacity	650 litres
Machine weight	13 tonnes

Please note: weights given are dependant on incoming densities, moisture and content.

### What our customers think of this baler:

#### *The Range, Mitcheldean (above):*

**The Range** of household superstores was set up ten years ago but now has 38 outlets from Plymouth to Carlisle. Middletons installed a baler for their cardboard and plastic waste two years ago at their Mitcheldean distribution depot which has since produced around 11,000 bales – perhaps 5000tonnes of recyclables that previously went for landfill. Depot manager, Graham Powell, says that he is delighted with the machine. "We work it almost every day of the year in two shifts, baling waste that comes back from each store. Though we've worked it hard, it's given very few problems and Middletons have usually helped us over the phone that saves the cost of a service visit. That's appreciated. We're very pleased."

#### *TJ Hughes, Merseyside (with two HB50s):*

Ian Metcalf, General Manager of the distribution depot says "We purchased our baler two years ago to combat the increasing costs of skips across the store sites. We bale around 35 tonnes a week on average and **it works so well we purchased a second baler** to deal with all the plastic back from stores."

#### *Heron Frozen Foods, Hull:*

Heron's Transport Manager Andy Barratt says the new machine is 100% better. "The old baler produced about 25 bales a day while this does about 15 by compacting it a lot better. The last six days we did round about 62 tonnes. We've still got two men on but

then they worked a 16 hour cycle, now it just runs from 10 till 6pm. It's working twice as fast, it's super."

#### *SCA Hygiene, Prudhoe:*

Two balers are running 362 days a year, around the clock. Jim Sibbald says that "we have to work it almost continuously baling waste tissue off different production lines. We're baling around 700t a week: that's a lot of tissue."

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