

Harris Waste Management Group



**Processes:**

- Newspaper (ONP)
- Cardboard (OCC)
- High Grade Paper
- Solid Waste (MSW)
- Plastics (PET, HDPE, Film)
- Cans (Steel/Aluminum)
- White Goods
- Non-Ferrous Metals



*Two-Ram Balers*



Balers • Conveyors • Shredders  
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www.dehartsales.com  
11862 Missouri Bottom Road • St. Louis, MO 63042  
P (314) 292-8181 • F (314) 292-7138





## Standard Features:

*Laser* positioning system for all ram and bale exit door movements, provides a reliable and virtually maintenance free operation.

3500 PSI (241 bars) system operating system pressure  
10 in. (254mm) main cylinder, 137 tons (124.2 tonnes) of force,  
223 PSI (15.7 kg/cm<sup>2</sup>) ram face pressure  
7 in. (178mm) eject cylinder, 67 tons (60.8 tonnes) of force,  
85 PSI (6.0 kg/cm<sup>2</sup>) ram face pressure

### Smartknife™ & Skyjacker™

High Quality Abrasion Resistant material replaceable liners including  
tongue and groove floor liners

Multi-Material controller with: Phone modem  
OIT  
Diagnostics  
English/Spanish display

Self-aligning cylinders

Heavy-duty main cylinder incorporates **Harris'** designed heavy  
wall cylinder tube, flame hardened cylinder rod and TFE piston seal

Full automatic operation on the majority of materials

Heavy-duty uni-body frame construction

Choice (by customer) of serrated or flat shear knife

Penetrating main ram (L series incorporates 60% penetration  
into the bale chamber)

Plug bale compatible

Auto Tier – 11 or 12 gauge high tensile wire

3 phase, 60 Hz, 460 V electrical

Harris standard warranty

## Options:

### Combo Door™

11 in. (279mm) main cylinder, 166 tons (150 tonnes) of force,  
269 PSI (18.9 kg/cm<sup>2</sup>) ram face pressure

8 in. (203mm) eject cylinder, 88 tons (79.8 tonnes) of force,  
110 PSI (7.7 kg/cm<sup>2</sup>) ram face pressure

Hopper extension (up to 96 in. (2438mm) high)

Bale discharge table

Elevated operator's platform

Climate controlled operator's cab

Feed conveyor(s)

WYE Delta main motor starting

CE rating

Alternative power unit locations

Other languages, electrical voltages, & options on request



OCC Bale



High Grade Paper Bale



Plastic Bale (PET)



Non-Ferrous Metal Bale



UBC Bales

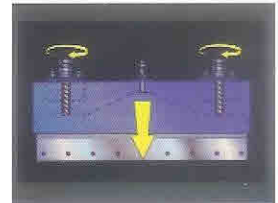
### Skyjacker™ System

The Harris Skyjacker™ System allows for the replacement of the baler floor liners and main ram platen shoes without requiring the removal of the main platen or disassembly of the baler. The easily accessible jackbolt assembly enables quick (less manhours) relining of the platen wear shoes and baler floor liners.



### SmartKnife™ System

The Harris Smartknife™ System allows for quick adjustment of the baler's fixed cutting blade without using the time-consuming shimming method. Instead, the SmartKnife™ incorporates strategically placed bolts that are easily adjustable. This standard feature encourages the operator to maintain correct gap tolerance for smooth shearing which extends the life of the equipment.



### Combo Door™

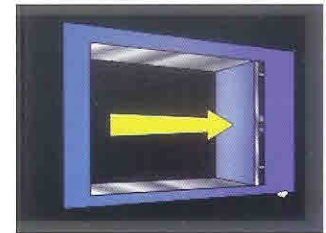
The Harris unique patented Combo Door™ option combines the bale separation and bale release in one door. When fully extended, the Combo Door™ is closed for clean bale separation. This separation feature ensures high bale weights, densities, uniform bale lengths, and easy grade changeovers. For normal bale release, the door opens to its "home" position. During oversize bale operation it enlarges the bale door opening by an additional 7 in. (178mm) for the easy ejection of oversize bales. This simple, yet innovative mechanism, significantly reduces bale jamming.



*Combo Door™ closed (fully extended for bale separation)*



*Combo Door™ open (normal bale ejection)*



*Combo Door™ retracted (fully retracted for release of oversize bale)*



### Control Panel:

Harris incorporates state-of-the-art controls including an OIT\* display that incorporates various user friendly screens. These provide continuous operating information and built-in diagnostic system with phone modem.

\*Operator Interface Terminal







Model	Short 50S-2	Short 75S-2	Short 100S-2	Long 50S-2	Long 75S-2	Long 100S-2	Long 100S-4	
Main Motor	50 HP (37.5 kw)	75 HP (55.9 kw)	100 HP (75.6 kw)	50 HP (37.5 kw)	75 HP (55.9 kw)	100 HP (75.6 kw)	100 HP (93 kw)	
Dry Cycle Time**	20 sec	13 sec	14 sec	22.2 sec	19 sec	16 sec	7.3 sec	
Est. Shipping Wt*** ton (tonnes)	28 (25.4)	28 (25.4)	28 (25.4)	28 (25.4)	28 (25.4)	28 (25.4)	28 (25.4)	
Material	Bale Weight LBS (Kgs)	Production Rates* TPH (tonnes/hr)		TPH	TPH	TPH	TPH	TPH
Bulk OCC	1150 - 1425 (521 - 646)	up to 6.2 (up to 5.6)	up to 12 (up to 10.8)	up to 12 (up to 10.8)	up to 8 (up to 7.3)	up to 10 (up to 9.0)	up to 11 (up to 9.9)	up to 19 (up to 17.2)
Solid Waste	1825 - 2450 (827 - 1111)	up to 14 (up to 12.7)	up to 30 (up to 27.2)	up to 28 (up to 25.4)	up to 16 (up to 14.5)	up to 22 (up to 19.9)	up to 30 (up to 27.2)	up to 38 (up to 35.4)
News (ONP)	1275 - 1625 (578 - 737)	up to 10 (up to 9.0)	up to 20 (up to 18.1)	up to 19 (up to 17.2)	up to 12 (up to 10.8)	up to 15 (up to 13.6)	up to 17 (up to 15.4)	up to 28 (up to 25.4)
Whole Al. Cans	925 - 1125 (420 - 510)	up to 4.8 (up to 4.4)	up to 9 (up to 8.2)	up to 9.2 (up to 8.3)	up to 6 (up to 5.4)	up to 7 (up to 6.4)	up to 9.2 (up to 8.3)	up to 14 (up to 12.7)
Steel Cans	1475 - 2075 (669 - 941)	up to 10 (up to 9.0)	up to 19 (up to 17.2)	up to 19 (up to 17.2)	up to 12 (up to 10.9)	up to 16 (up to 14.5)	up to 19 (up to 17.2)	up to 30 (up to 27.2)
Plastic	1150 - 1550 (521 - 703)	up to 4.4 (up to 4.0)	up to 7.5 (up to 6.8)	up to 7.6 (up to 6.9)	up to 5 (up to 4.5)	up to 6.5 (up to 5.9)	up to 7.6 (up to 6.9)	up to 13 (up to 11.7)
Non-Ferrous	1200 - 2250 (544 - 1021)	up to 7.6 (up to 6.9)	up to 14 (up to 12.7)	up to 14 (up to 12.7)	up to 9 (up to 8.2)	up to 11 (up to 10.0)	up to 14 (up to 12.7)	up to 21 (up to 19)

\* Performance rates, production rates, weights and densities are subject to material input densities, feed rates and other variables of production outside the control of HWMG, Inc.

\*\* 10 in. (254mm) cylinder (full extend to full retract)

\*\*\* Includes Combo Door option

Specifications subject to change without notice.

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### General Specifications (with Combo Door™ Option)

Overall Dimensions	Short: 289"l x 185"w x 92" h (7340mm x 4699mm x 2337m) Long: 357"l x 185"w x 92"h (9068mm x 4699mm x 2337mm)
Charge Box Opening	42" w x 85"l (1067mm x 2169mm)
Hopper Opening	Short: 65" w x 74"l (1651mm x 1880mm) Long: 65" w x 94" l (1651mm x 2388mm)
Bale Size Expanded	31" x 46" x 61" (787mm x 1168mm x 1549mm)
System Pressure	3500 PSI (241 bars)

Customer choice of 50 HP (37.5kw), 75 HP (55.9kw), and 100 HP (75.6 or 93 kw) power units

Harris Badger is a narrow box, multi-purpose baler providing quality, efficiency and reliability at an economical price. The Badger produces high density bales with the highest baling force in its class.



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