



HARRIS MODEL - BADGER L125S-4-11/8

Automatic Two-Ram Baling Press
 General Specification Number BADL125S4118R1
 Revised 10/10/2013

*PERFORMANCE

Bale Size	46 in. wide x 31 in. high x 61 in. long (1168 mm wide x 787 mm high x 1549 mm long)
Bale Volume	50 cubic feet (1.42 cubic meters) expanded (approximate)
Dry Cycle Time	11.5 seconds (12.5 seconds 50hz) No Load
Capacity	18,700 cubic feet per hour (530 cubic meters per hour) no load

GENERAL SPECIFICATIONS

Hopper Opening (Top)	65 in. x 94 in. (1651 mm x 2388 mm)
Charge Box Opening	42 in. x 85 in. (1067 mm x 2159 mm)
Strapper	Automatic Wire Tie
Non-ferrous liners	Main frame floor and ram
Approximate Shipping Weight	32.5 Tons (29.5 Tonnes)

*BALING MATERIAL SPECIFICATIONS

Material	Bale Weight lbs (kg)	Density lbs/cu ft (kg/cu m)		w/ Combo Door		w/o Combo Door	
		Loose	Baled	tons/hr (tonnes/hr) 60hz	(tonnes/hr) 50hz	tons/hr (tonnes/hr) 60hz	(tonnes/hr) 50hz
BULK OCC	1250-1550 (568-705)	3-6 (48-96)	25-31 (400-497)	8.8-13.6 (8.0-12.3)	(6.4-9.9)	10.4-15.2 (9.4-13.8)	(7.6-11.1)
SOLID WASTE	1900-2400 (864-1091)	7.0-12.0 (112-192)	38-48 (609-769)	18.4-26.4 (16.7-23.9)	(13.5-19.3)	22.4-30.4 (20.3-27.6)	(16.4-22.2)
NEWSPRINT	1300-1600 (591-727)	6.8-8.0 (109-128)	26-32 (416-513)	13.6-18.4 (12.3-16.7)	(9.9-13.5)	17.6-22.4 (16.0-20.3)	(12.9-16.4)
WHOLE ALUMINUM CANS	1000-1200 (455-545)	1.5-4.5 (24-72)	20-24 (320-384)	5.6-9.6 (5.1-8.7)	(4.1-7.0)	6.4-11.2 (5.8-10.2)	(4.7-8.2)
STEEL CANS	1500-2400 (682-1091)	6.0-9.0 (96-144)	30-48 (481-769)	14.4-20.8 (13.1-18.9)	(10.5-15.2)	16.8-24.0 (15.2-21.8)	(12.3-17.5)
PLASTIC	1150-1450 (523-659)	1.2-4.0 (19-64)	23-29 (368-465)	4.0-9.6 (3.6-8.7)	(2.9-7.0)	4.8-10.4 (4.4-9.4)	(3.5-7.6)
NON-FERROUS	1050-2700 (477-1227)	3.0-6.5 (48-104)	21-54 (336-865)	8.0-14.4 (7.3-13.1)	(5.8-10.5)	9.6-16.8 (8.7-15.2)	(7.0-12.3)

*Performance rates and/or production rates are subject to material input density, feed rates, and other variables of production outside the control of HWMG, Inc.

OPTIONS

Hopper Extension	Combo Door (Combination Oversized Bale Release and Separation Door)
Conveyors	Elevation of Platform
Installation Assistance	Climate-Controlled Operator's Cabin
Bale Run out Table	

HYDRAULICS

Main Pumps	381 gpm	(1442 LPM)	(1153 LPM) 50hz
Circulation Pump	108 gpm	(408 LPM)	(326 LPM) 50hz
Strapper Pump	12 gpm	(45 LPM)	(45 LPM) 50hz
System Pressure	3500 psi	(241 BAR)	
Main Cylinder	11 in. bore, 8 in. rod, 135 in. stroke	(280mm bore, 200mm rod, 3429mm stroke)	
Main Ram Face Pressure	166 tons of force, 60% ram penetration	(151 tonnes of force, 60% ram penetration)	
Ejector Cylinder	288 psi	(20 bar)	
Ejector Ram Face Pressure	8 in. bore, 5.5 in. rod, 73 in. stroke	(200mm bore, 140mm rod, 1854mm stroke)	
	88 tons of force	(80 tonnes of force)	
	111 psi	(8 bar)	
Oil Reservoir	550 gallons capacity (Standard)	(2081 liters capacity (Standard))	
Oil Cooler	Air-to-Oil Thermostatically-Controlled		
Oil Heater	3000-Watt Thermostatically-Controlled		
Filtration	10-micron		

Hydraulic Power Unit

Motors	Main (1) 125HP 460/3/60, 1750 RPM, ODP Main (1) 90kW 460/3/60, 1750 RPM, ODP Main (1) 90kW 415/3/50, 1450 RPM, ODP Circ. (1) 20HP 460/3/60, 1750 RPM, TEFC Circ. (1) 14.9kW 460/3/60, 1750 RPM, TEFC Circ. (1) 14.9kW 415/3/50, 1450 RPM, TEFC	Cooling Fan (2) 1 HP 460/3/60, 1750 RPM, TEFC Cooling Fan (2) 0.75kW 460/3/60, 1750 RPM, TEFC Cooling Fan (2) 0.75kW 415/3/50, 1450 RPM, TEFC
Starters	SMC-3 Soft Start	
Location	3 Standard power unit positions to choose from (refer to layout sheet attached). Optional power unit locations positions at additional cost.	

Electrical

Functions	Automatic or manual baling cycles. Pushbuttons and joystick mounted on operator's console. Self-diagnostics display. Multiple baling and strapping modes.	
Controls	UL and CUL listed Operator Interface Terminal (OIT), 20 material selection and setup with 10" color touch screen display/phone modem. Solid-state programmable controller with operator console	
PLC Logic	AB-RS500 Software, MicroLogix Hardware	
Location	Operator control console mounted over compression chamber	
Enclosures	NEMA 12 rated MCP, NEMA 1 rated OCS (Not rated for outdoor operation)	
Photo Eyes	Adjustable Multi-level material control	
Conveyor Controls	(1) 10HP	(1) 7.46kW (Standard)

Construction

Main Frame and Compression Chamber	Constructed of heavy steel plate and reinforcing ribs. Wear surfaces are replaceable abrasion resistant plate. Back wall is reinforced solid steel plate. Flooring constructed of tongue and groove abrasion-resistant wear plates.	
Rams	Both the gathering and eject rams are heavy steel weldments with abrasion-resistant liner plates.	
Piping	ASTM A-106 Schedule 160	
Fixed Knife	Harris' patented "Smart-knife" adjusting system. No shims are required.	

Tying Unit

Model Number	Accent 470 Series, L & P Wire-Tie System (331, 332, 341, 342), and Pinnacle II Series.
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Testing

Factory Test	Machine is fully assembled and tested prior to shipping
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Startup Service

Services provided by your distributor or HWMG	Qualified startup technicians are required. Pricing is available upon request.
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Purchaser To Provide

Hydraulic Oil	Approximately 600 Gallons (3025 Liters)
Electric Power	Provide to Main Control Panel
Concrete Foundation Floor	Refer to foundation load drawing for details
Unloading Equipment	Personnel, equipment and tools required to unload assemble and install baler. Spreader bars are required for lifting equipment
Wire	Correct wire for strapping
Baling Material	Adequate and appropriate materials for processing during the start-up/training period
Safety	Refer to Safety and Installation Guidelines attached.,
Maintenance	Tools and spare parts for performing maintenance, adjustments and troubleshooting

Acceptable and Non-Acceptable Materials

This baler is intended to process the following materials. Any materials other than these could severely damage the machine and will void the warranty.

ACCEPTABLE

- Empty Aluminum Cans
- Empty Tin Cans, buckets or barrels, 55 gallons or less

THE FOLLOWING MATERIALS ARE BASED ON SHEARING A SINGLE LAMINATION ONLY:

- High-grade paper (conditioned)
- Corrugated Cardboard
- Solid Waste (Exclusions below)
- Drywall
- Wooden Pallets
- Empty PET (Plastic) Bottles
- "White goods" without motors and transmissions
- Newsprint (conditioned)
- Aluminum Sheeting, less than 16-gauge thick
- Aluminum Siding and aluminum cable less than 1/2" diameter
- Aluminum Extrusions less than 3/16" thick and less than 1/2 sq. in. in cross-section
- Copper less than 1/2 sq. in. in cross-section
- Radiators(automobile only, made of aluminum or brass)
- Steel Cable less than 1/2" in diameter
- Non-magnetic ferrous material with a thickness no greater than 1/16" nor greater than 1/4 sq. inch in cross-section
- Rags
- Ferrous material with a tensile strength of less than 50,000 Lbs/sq. inch, a thickness of no more than 1/16" and a cross-section of no more than 1/4 sq. in.

NON-ACCEPTABLE

- Pressurized cylinders or cans of any description
- Large pieces of masonry, steel or other such non-compressibles
- Ferrous metals greater than 1/16" thickness or 1/4" diameter or 1/4" cross section

SOLID WASTE EXCLUSIONS

- Masonry or concrete greater than 1 square inch in cross-section or 6" in length
- Glass, masonry, and other such abrasive non-compressibles can cause excessive wear or damage and can interfere with baler functions such as shearing or the operation of the door

**Limited Warranty: All Harris Waste Management Group, Inc. Manufactured Products
This machine is covered under Harris WARRANTY (HWMG, Inc. 990101W-STD) which is attached.**

NOTES:

- 1) Some bridging may occur in the hopper depending upon the material being processed and how the material is being presented to the hopper. Wet solid waste may tend to extrude the plug bale if the baler has no baling door. Some materials may require pre-conditioning. Consult your Harris representative for recommendations.
- 2) The knife edges and the vertical blade clearance must be maintained within the limits described in the Operator/Service manual.
- 3) Bales must be broken apart and loose prior to rebaling.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



INSTALLATION SAFETY GUIDELINES

- All operators and support personnel should be trained in the safe operation of the baler, including proper material feeding techniques in accordance with the Harris Operator/Service Manual and ANSI Z245.5 standard – Baling Equipment – Safety Requirements for Installation, Maintenance and Operation.
- All operators and employees must be instructed as to the location and use of all emergency stop devices associated with the baler and all ancillary equipment.
- All emergency stops on baler, in-feed conveyor and other ancillary equipment are to be interlocked so that any emergency stop will shut down the baler, in-feed conveyor and any ancillary equipment. Emergency stop devices must be installed on both sides of the in-feed section of the conveyor.
- All electrical power for baler, in-feed conveyor and other ancillary equipment must be from a single source with a single electrical disconnect to insure all equipment can be locked out at a single location in accordance with OSHA 1910.147.
- The operator must have an unobstructed view of the baler in-feed and baler discharge area from the operator's console.
- Entry to the hopper or hopper extension must be in accordance with OSHA standards by means of access doors, and fixed or mobile platforms. **Never use the in-feed conveyor as a means to access the hopper or hopper extension.**
- Proper guarding between the hopper or hopper extension and conveyor must be provided in compliance to OSHA/ANSI guarding standards.
- Conveyor should be located so that material discharged into the hopper does not cause bridging.
- Conveyor belt width should not be wider than the baler charging box opening in the direction of entry to avoid possible bridging.
- The maximum size of material should be no greater than the size of the baler charging box to minimize bridging.
- Obstructions, protrusions, and transitions in the hopper should be avoided to minimize bridging.
- Insure that all decals are in place. A decal location chart is provided in the Harris Operator/Service Manual.