



Municipality of Skagway

MEMO

TO:	Mayor and Assembly
FROM:	Emily Deach, Deputy Manager
DATE:	June 13, 2022
SUBJECT:	Approval of Sole Source Purchase of Harris Badger Baler 100 S-2-10/7 from Recycle Systems LLC

At its meeting of June 8, the Public Works Committee discussed the condition of the incinerator and contingency planning in the event the incinerator is disabled. In these emergency events, a backup method of solid waste disposal is critical, especially in the high-volume summer months. The committee discussed that a baler can be utilized in these situations to prepare solid waste for shipping out of the community.

Options for procuring an appropriate baler are very limited. The committee discussed a particular baler unit – the refurbished Harris Badger 100 S-2-10/7 baler. Recycle Systems LLC is unable to hold this baler for the Municipality, and it will be sold on a first-come first-served basis. The Municipality’s needs can be met with this particular unit, which to the Municipality’s knowledge is only available through this vendor; it is in the Municipality’s best interests to acquire the baler as soon as possible.

The price of the baler is \$230,000 shipped to Seattle, so there will be an additional cost related to shipping from Seattle to Skagway. While the FY22 budget is likely able to cover this expense under a line-item transfer from unexpended funds, a future budget amendment may be needed.

Pursuant to [SMC 4.05.060\(A\)\(3\)](#), an exception to the competitive sealed bidding procedure can be made “where the municipality’s requirements can be met solely by an article or process obtainable from a known single source. No purchase shall be made pursuant to this subsection except upon written authorization of the assembly certifying that there is no reasonable substitute for the article or process, and that it is obtainable only from a known single source.”

Staff asks that the Assembly consider the following motions:

- **To certify that there is no reasonable substitute for the Harris Badger 100 S-2-10/7 baler, and it is obtainable only from Recycle Systems LLC.**
- **To approve the baler purchase from Recycle Systems LLC in the amount of \$230,000 plus shipping.**

June 8, 2022

Municipality of Skagway / Public Works
Attn: Tyson Ames
PO Box 415
Skagway, Alaska 99840

Re-furbished HARRIS BADGER 100 S-2-10/7

(Serial # 8321)

Equipped as follows:

Structural

Box Opening	42"W x 85"L
Hopper Opening	94" x 65"
1/2" Floor Liners	AR 400
Bale Dimensions	46"W x 31"H x 61"L
Shipping Weight	27 Tons
Combo Door	Included
Auto-Tier	Accent
Side Loading Hopper with Extension	Included
Bale Table	Included
Shear Knife	

Hydraulics

Main Cylinder Dia.	10" Diameter
Ejector Cylinder Dia.	7" Diameter
Valves	Poppet Valves
System Pressure	3500 lbs.
Hydraulic Lines	Radial Piping & 5000 PSI Hoses
Hydraulic Reservoir	400 Gallons
10 Micron Replacement Filters	Yes
Dry Cycle Time	19 Seconds
Ram Penetration	60% into Bale Chamber
Overall Platen Force/Main	137 Tons (239 - P.S.I.)
Overall Platen Force/Ejector	67 Tons (85 - P.S.I.)

EQUIPMENT FOR SOLID WASTE AND RECYCLING

12828 Willows Rd. NE Kirkland, WA 98034

(425) 453-9300 • Toll Free (888) 453-9300 • Fax (425) 821-0975 • www.recyclesys.com



June, 8 2022

Municipality of Skagway / Public Works
Attn: Tyson Ames
PO Box 415
Skagway, Alaska 99840

Electrical

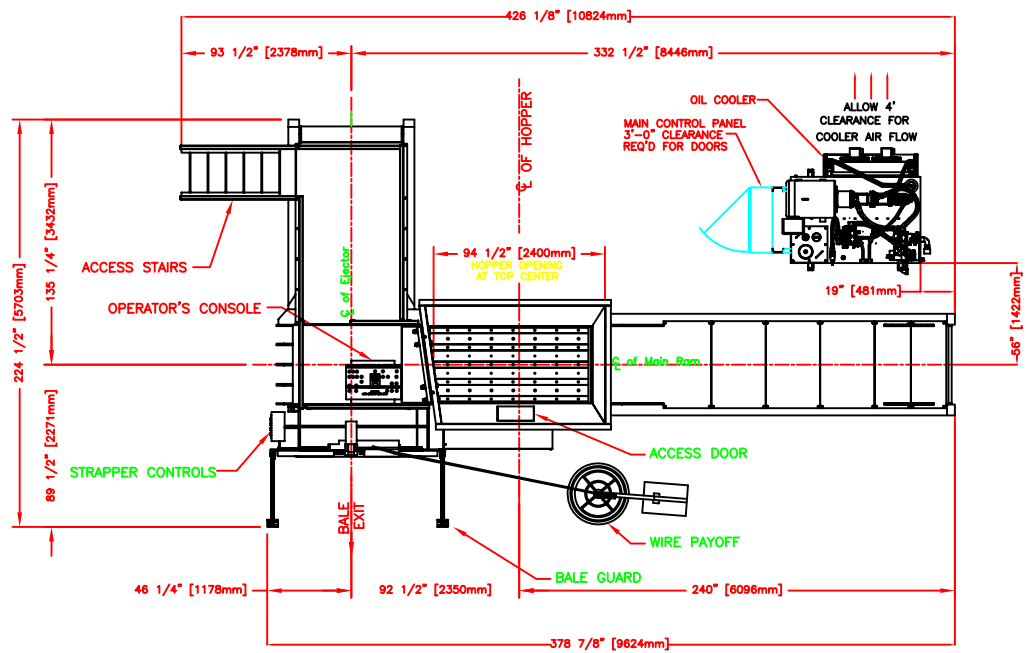
Main Motor Size	One 100 HP
Operator Interface Terminal	Yes
Reservoir Heater	Yes
Hour Meter	Yes
NEMA 12 Rated	Yes
Conveyor Controls	Yes
Warranty (90 days parts – No cylinders or motors)	

F.O.B. Alaska Marine Lines, Seattle \$230,000.00

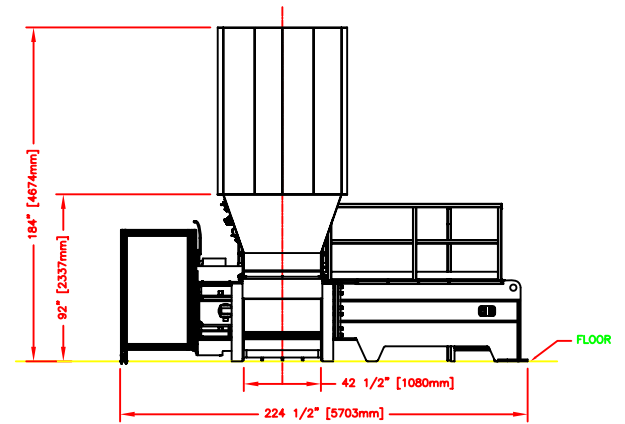
**Delivery: Ready to ship 60 to 90 days from receipt of deposit.
AML Freight: (1) full flat deck (1) half deck 24'**

Terms: 50% down with order, 45% due at ready to ship, balance due 30 days after delivery. Quote valid for 15 days.

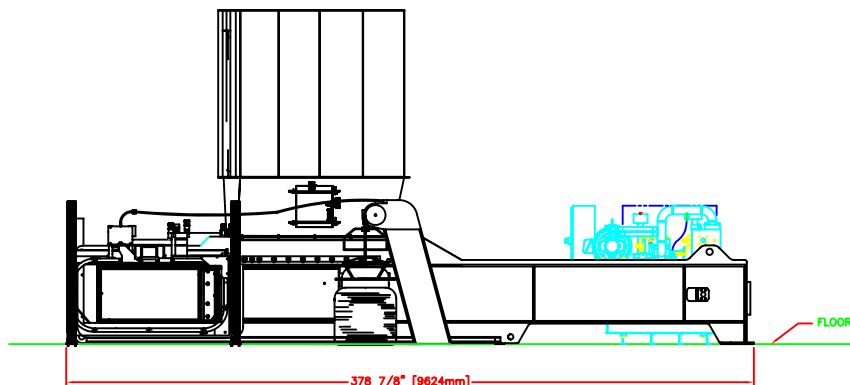
*Customer responsible for electrical hookup, baler pad, equipment for unloading and placement of the baler. Recycle Systems will install the baler, and direct the start up and baler training.



PLAN VIEW



END VIEW
POWER UNIT OMITTED FOR CLARITY



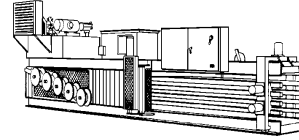
END VIEW
HANDRAILS OMITTED FOR CLARITY

<p>ISSUING APPROVAL</p> <p>This Drawing is Forwarded For Your Approval. Please Check The Appropriateness, Size And Return Immediately. Other Changes Approved or Noting Changes Requested.</p>		<p>APPROVED <input type="checkbox"/></p> <p>NOT APPROVED <input type="checkbox"/></p>
<p>FRM: _____</p> <p>BY: _____</p> <p>DATE: _____</p>		
<p>QUOTED DELIVERY TIME WILL DEPEND UPON TIMELY RECEIPT OF APPROVAL DRAWING</p>		

REV.	DATE	DESCRIPTION	BY	DATE
DESIGN BY	1/10/07	Approved as shown		
CHK BY		DO NOT SCALE		
<p>PROPERTY DATA</p> <p>This drawing is the property of Harris Waste Management Group, Inc. and contains confidential information. Recipient agrees to use the contents for authorized purposes only. Any reproduction or unauthorized use without the consent of Harris Waste Management Group, Inc. will be subject to prosecution.</p> <p>Date: 06/28/04 Released by: JLD</p>		<p>DESCRIPTION</p> <p>HARRIS WASTE MANAGEMENT GROUP BAXLEY OPERATIONS</p>	<p>JOB#</p> <p>DESCRIPTION</p> <p>BADGER -S2-LH POWER UNIT POS 2 WITH HOPPER EXTENSION GENERAL ARRANGEMENT</p>	<p>CLIENT#</p> <p>SCALE: 3/4"=1'-0"</p> <p>SHEET: _____</p>



**Barris Waste
Management
Group, Inc.**



POWER REQUIREMENT FORM

MODEL# BADGER 100S-2-10-7 JOB# ???? VOLTAGE 460 VOLTS 60HZ - THREE PHASE.

MAIN MOTOR	100 HP	117 FLA
OIL HEATER	3 KW	10 FLA
CONVEYOR MOTOR	10 HP	14 FLA
COOLING FAN MOTOR#1	.25 HP	.65 FLA
COOLING FAN MOTOR#2	.25 HP	.65 FLA
TRANSFORMER	.500 KVA	3 FLA

145.3 FLA X 1.25 = 181.6

CONTROL PANEL WILL HAVE A 200 AMP BREAKER.

THANKS MIKE BARNES

**P.O. Box 406
100 Jekyll Road
Baxley, GA. 31513 FAX (912) 367-5227
(912) 367-4661 (800) 447-3526**



Two-Ram Balers



Non-Ferrous Metal Bales

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.

Processes:

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



200 Clover Reach Drive
Peachtree City, GA 30269

www.harriswaste.com

(800) 373-9131 • (770) 631-7290 • (770) 631-7299 fax



Standard Features:

3500 PSI (241 bars) system operating system pressure
10 in. (254mm) main cylinder, 137 tons (124.2 tonnes) of force, 222 PSI (15.6 kg/cm²) ram face pressure
7 in. (178mm) eject cylinder, 67 tons (60.8 tonnes) of force, 85 PSI (6.0 kg/cm²) ram face pressure

Smartknife™ Assembly, shimless blade adjustment
Through-bolted adjustable platen hold-downs (shimless)

Skyjacker™ System, floor replacement system
High Quality Abrasion Resistant material replaceable wear liners
Non-ferrous (tongue & groove) floor liners
Multi-Material controller with: Phone modem
Built-in diagnostics
English/Spanish display

Self-aligning cylinders
Heavy-duty main cylinder incorporates **Harris'** heavy wall cylinder tube, flame hardened cylinder rod and TFE piston seal
Full automatic operation on the majority of materials
Structurally sound 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™ (Both Bale Separation & Oversize Release Door)
Panelview 600 color display Multi-Material controller
11 in. (279mm) main cylinder, 166 tons (150 tonnes) of force, 269 PSI (18.9 kg/cm²) ram face pressure
8 in. (203mm) eject cylinder, 88 tons (79.8 tonnes) of force, 110 PSI (7.7 kg/cm²) 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)
Other electrical voltages
WYE Delta main motor starting
CE rating
Other languages
Alternative power unit locations
Other options on request



OCC Bale



High Grade Paper Bale



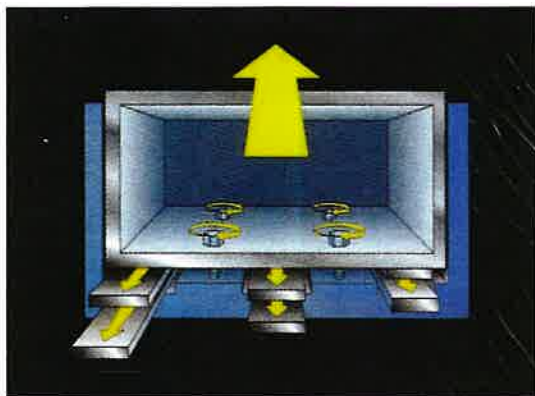
Plastic Bale (PET)



Non-Ferrous Metal Bale

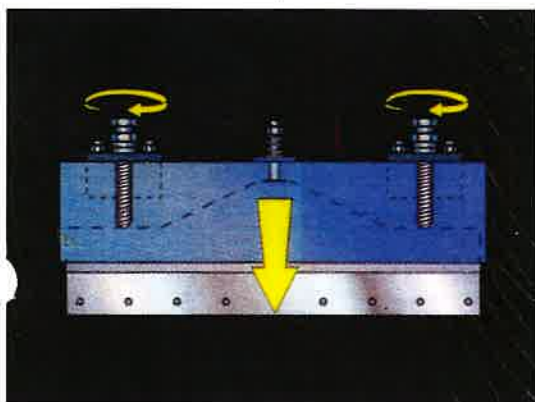


UBC Bales



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.

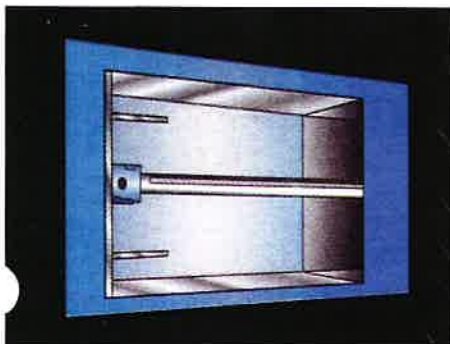


SmartKnife™ System

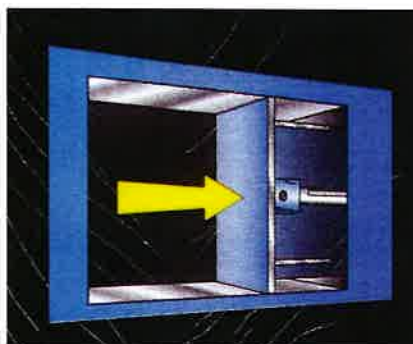
The Harris Smartknife™ System allows for quick adjustment of the baler's fixed cutting blade without using the time-consuming shimming method. Instead, the SmartKnife™ incorporates strategically placed bolts that are easily adjustable. This standard feature encourages the operator to maintain correct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

Combo Door™

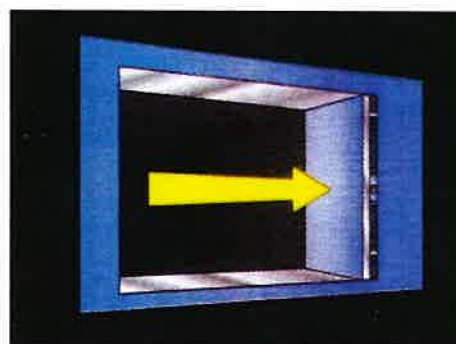
The Harris unique patented Combo Door™ option combines the bale separation and bale release in one door. When fully extended, the Combo Door™ is closed for clean bale separation. This separation feature ensures high bale weights, densities, uniform bale lengths, and easy grade changeovers. For normal 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)*



Model	Standard 50S-2	Standard 75S-2	Standard 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)	
Expanded Bale Size (all)	31" x 46" x 61"		(787mm x 1168mm x 1549mm)					
Material	Bale Weight LBS (Kgs)	Production Rates*		TPH	TPH	TPH	TPH	TPH
		TPH (tonnes/hr)	TPH					
Bulk OCC	1150 - 1425 (521 - 646)	4.6 - 6.2 (4.1 - 5.6)	6.1 - 8.7 (6.5 - 7.9)	7.9 - 12 (7.1 - 10.8)	5 - 8 (4.5 - 7.3)	7 - 10 (6.4 - 9.0)	8.1 - 13 (7.3 - 11.8)	11 - 17 (9.9 - 15.4)
Solid Waste	1825 - 2450 (827 - 1111)	9.3 - 14 (8.4 - 12.7)	13 - 21 (11.7 - 19.0)	17 - 28 (15.4 - 25.4)	10 - 16 (9.0 - 14.5)	14 - 22 (12.7 - 19.9)	18 - 30 (16.3 - 27.2)	20 - 40 (18.1 - 36.2)
News (ONP)	1275 - 1625 (578 - 737)	7.1 - 10 (6.4 - 9.0)	11 - 14 (9.9 - 12.7)	14 - 19 (12.7 - 17.2)	7.5 - 12 (6.8 - 10.8)	12 - 15 (10.8 - 13.6)	15 - 21 (13.6 - 19.0)	17 - 23 (15.4 - 20.8)
Whole Al. Cans	925 - 1125 (420 - 510)	2.7 - 4.8 (2.4 - 4.4)	3.4 - 6.9 (3.0 - 6.3)	4.2 - 9.2 (3.8 - 8.3)	3 - 6 (2.7 - 5.4)	4 - 7 (3.6 - 6.4)	4.3 - 9.5 (3.9 - 8.6)	7 - 12 (6.3 - 10.9)
Steel Cans	1475 - 2075 (669 - 941)	7.4 - 10 (6.7 - 9.0)	11 - 15 (9.9 - 13.6)	14 - 19 (12.7 - 17.2)	8 - 12 (7.3 - 10.9)	11 - 16 (9.9 - 14.5)	15 - 20 (13.6 - 18.1)	18 - 26 (16.3 - 23.5)
Plastic	1150 - 1550 (521 - 703)	2.2 - 4.4 (2.0 - 4.0)	2.7 - 6 (2.4 - 5.4)	3.2 - 7.6 (2.9 - 6.9)	2.5 - 5 (2.3 - 4.5)	3 - 6.5 (2.7 - 5.9)	3.5 - 8 (3.2 - 7.3)	5 - 12 (4.5 - 10.9)
Non-Ferrous	1200 - 2250 (544 - 1021)	4.6 - 7.6 (4.2 - 6.9)	6 - 10 (5.4 - 9.0)	7.6 - 14 (6.9 - 12.7)	4.8 - 9 (4.4 - 8.2)	6 - 11 (5.4 - 10.0)	8 - 15 (7.3 - 13.6)	10 - 18 (9.1 - 16.3)
Dry Cycle Time**		20 sec	16 sec	14 sec	26 sec	22 sec	19 sec	10 sec
Est. Shipping Wt*** ton (tonnes)		25 (22.7)	25 (22.7)	26 (23.5)	26 (23.5)	26 (23.5)	27 (24.5)	28 (25.4)

* Production can be affected by material type, input density, moisture content, and feed rate.

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

*** Includes Combo Door option

Specifications subject to change without notice.

"Standard" Box Baler Series (with Combo Door™ Option):

Hopper opening - 65" w x 74" l (1651mm x 1880mm)

Charge box opening - 42" w x 62" l (1067mm x 1575mm)

Overall dimensions- 289" l x 185" w x 92" h (7340mm x 4699mm x 2337mm)

"L" Long Box Baler Series (with Combo Door™ Option):

Hopper opening - 65" w x 94" l (1651mm x 2388mm)

Charge box opening - 42" w x 85" l (1067mm x 2169mm)

Overall dimensions - 357" l x 185" w x 92" h (9068mm x 4699mm x 2337mm)

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



M98017

Revised 3/04

Sales Office



EQUIPMENT FOR SOLID WASTE AND RECYCLING

888-453-9300