

ECONOMY BALER COMPANY

SERVICE BRANCHES IN
IMPORTANT CENTERS



Manufacturers of

BALING PRESSES AND MACHINERY

FACTORY AND MAIN OFFICE
ANN ARBOR, MICH., U.S.A. 48107

PROPOSAL SPECIFICATION: 740121

AUTOMATIC BALING PRESS MODEL: Economy HRB-IC

GENERAL LAYOUT DRAWING: 4A-6132

APPLICATION:

Paper stock, secondary fibres,
low density non-ferrous metal

A CAPACITY AND PATING:

- | | |
|------------------------------------|----------------------------------|
| A1 PRESS BOX DIMENSIONS: | 60" wide x 36" deep x 185" long |
| A2 CHARGING BOX OPENING: | 60" wide x 111" long |
| A3 COMPRESSION CHAMBER SIZE: | 49" wide x 36" deep x 60" long |
| A4 APPROXIMATE EXPANDED BALE SIZE: | 52" wide x 37" deep x 60" long |
| A5 BALE WEIGHT: (Average) | 1400 - 1600 lb (Bulk corrugated) |
| A6 BALING CYCLE: | 180 seconds (20 cycles/hour) |

NOTE:

A6 is based on material with loose density of 4 lb/cu. ft. requiring three strokes to make a bale. Material can vary from 2 lb to 15 lb/cu. ft.

B COMPONENTS:

B1 ELECTRIC MOTORS:

B1.1 MAIN SYSTEM:

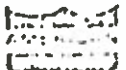
One (1) 100 HP, 1750 RPM, 230/460 volt, 3 ϕ , 60 Hertz, protected enclosure.

B2 ELECTRIC CONTROL SYSTEM:

B2.1 One (1) NEMA XII control panel to include across-the-line motor starters for 440 to 600 volt power, main circuit breaker, control circuit transformer and cycle control relays wired to terminal strips.

ES-111111

DIVISION OF



HOIST

B COMPONENTS: (Continued)

B2 ELECTRIC CONTROL SYSTEM: (Continued)

B2.2 One (1) operator's station enclosure to include oil tight control switches and signal lights, wired to terminal strips.

B3 HYDRAULIC SYSTEM:

B3.1 MAIN PUMPS: One (1) 75/12 GPM at 2400/1200 PSI
One (1) 75/8 GPM at 2400/500 PSI

B3.2 VALVES: Harris or equal

B3.2.1 Individual relief valves protect each pump from overload pressure.

B3.3.2 Directional valves are electrically controlled and hydraulically operated.

B3.3 CYLINDERS: Harris double acting all places; Teflon protected pistons in honed bores; rods flame hardened, ground and polished; standardized rod wipers, chevron packing and "O" ring gaskets.

B3.3.1 FIRST COMPRESSION: 12" bore, 135 tons

B3.3.2 BALE EJECTOR: 8" bore, 60 tons

B4 FILTERING AND COOLING SYSTEM:

B4.1 Filtering is by combination of tank magnets and replaceable cartridge type micronic filters.

B4.2 An oil to water heat exchanger is standard.

B5 AUTOMATIC TIE-OUT: U. S. Steel Supply Model 300 Series Strapping Head and system. Designed for use with U. S. Steel Supply 12 gauge SUPER-HI TEN round steel strapping.

C OPERATION:

C1 There are two modes of operation: Manual and automatic repeat. Manual operation is provided primarily for set up and maintenance purposes. Automatic repeat mode is normally synchronized with conveyor or other automatic methods of charging material and handling finished bales.

The baling sequence is as follows: Loose material brought to the machine by conveyor, overhead surge bin, or pushed in by bulldozer, etc., may be charged on top of the first compression ram if it is forward, or directly in the box if the ram is fully retracted. Loose material which is charged only on top of the first ram falls into the box automatically as a function of the baling cycle.

C OPERATION: (Continued)

- C1 At the start of a cycle the first compression ram extends fully forward. Any material extending above the ram is sheared off and gets mixed with the next charge of material. The ram continues to compress and retract until a sufficient charge to form a bale is pushed into the compression chamber. The ejector ram indexes the bale through the tie-out chamber. Both rams retract, and one baling cycle is completed.
- C2 A density selector switch is provided at the operator's control station to change the pressure sensing range in selected increments to compensate for material density.

D CONSTRUCTION:

- D1 The Model HRB-IC design follows established Economy standards.
- D2 The press is designed for flat surface, reinforced slab installation.
- D3 Major sub-assemblies are heavy plate and structural weldments of cellular construction, stress relieved before machining to design dimensions.
- D4 Final assembly is bolted and keyed.
- D5 Press box and baling chamber bottom, and ram wear surfaces are fitted with wear plates of heat treated alloy steel.
- D6 All liner plates are sectional design for ease of replacement.
- D7 All rams are box type steel weldments, stress relieved and machined to design dimensions.
- D8 Shear knives are securely seated in press frame and first compression ram. All four edges of knives are designed for shearing.
- D9 All pipe is electrically welded and securely anchored.
- D10 Pipe flanges are steel, bolted type, with "O" ring gaskets.
- D11 The press is completely assembled, operated and tested before shipment.
- D12 Standard paint is machinery enamel over primer coat.
- D13 Shipping weight: 63,500 lb., approx.

E GENERAL:

- E1 Layout and foundation prints show above grade dimensions and conditions. Below grade soil conditions, piers, piling, footings and associated components are matters of local determination for which Economy can accept no responsibility.

F GENERAL: (Continued)

E2 Economy technical services are available on a free advisory basis to assist in determining the location and material flow conditions best suited to utilize the high production of Economy equipment.

E3 This proposal also includes the services of a qualified specialist for two 8-hour working days. He will place the press in operation and instruct your operator in recommended operating and maintenance procedures. (Transportation and sustenance outside the continental United States is for the purchaser's account.)

F EXPENSES ASSUMED BY THE PURCHASER TO COMPLETE THE MACHINE INSTALLATION:

F1 Railroad freight from Cordele, Georgia, to destination.

F2 Preparation of foundation.

F3 Unloading and assembling of the press.

F4 Wiring from power source to electric control panel.

F5 Furnishing all fuses.

F6 Furnishing approximately 500 gallons of hydraulic oil for the hydraulic system.

F7 Strapping, U. S. Steel Supply 12 gauge Super Hi-Ten round steel strapping for use with Model 300 Series Head.

G WARRANTY:

G1 The seller guarantees its product for the period of six months after date of delivery FOB Cordele, Georgia, against defects in material and workmanship for use within the capacity defined in Section A. No guarantee shall exist if unauthorized alterations have been made by the owner or user, or stated capabilities of machine exceeded. In case any material or workmanship shall prove defective, the seller's liability will be limited to repairing any defect in workmanship or replacing defective parts packaged for shipment FOB Cordele, Georgia. All outside purchased equipment and accessories are guaranteed only to the extent of the original manufacturer's guarantee, shear blades included, no exceptions. Manufacturer reserves the right to change the design and construction of the product when in their opinion it represents and improvement of any part or the entire product. Seller shall have no liability or responsibility for consequential damages of any kind including damage or injury to persons or property arising out of use or operation of said article.

B. FORREST

SERIAL NO. 1464

MODEL HRB-1C

DATE 12-21-78

SHIPPING CLEARANCE DRAWING NO. SC-247

This machine has been loaded for shipment in accordance with the attached set of shipping clearances. Any discrepancies between these drawings and actual loading of machine have been noted on these sheets. This set of shipping clearances to be placed in historical file for this machine.

Signed

Billy Forrest

Date

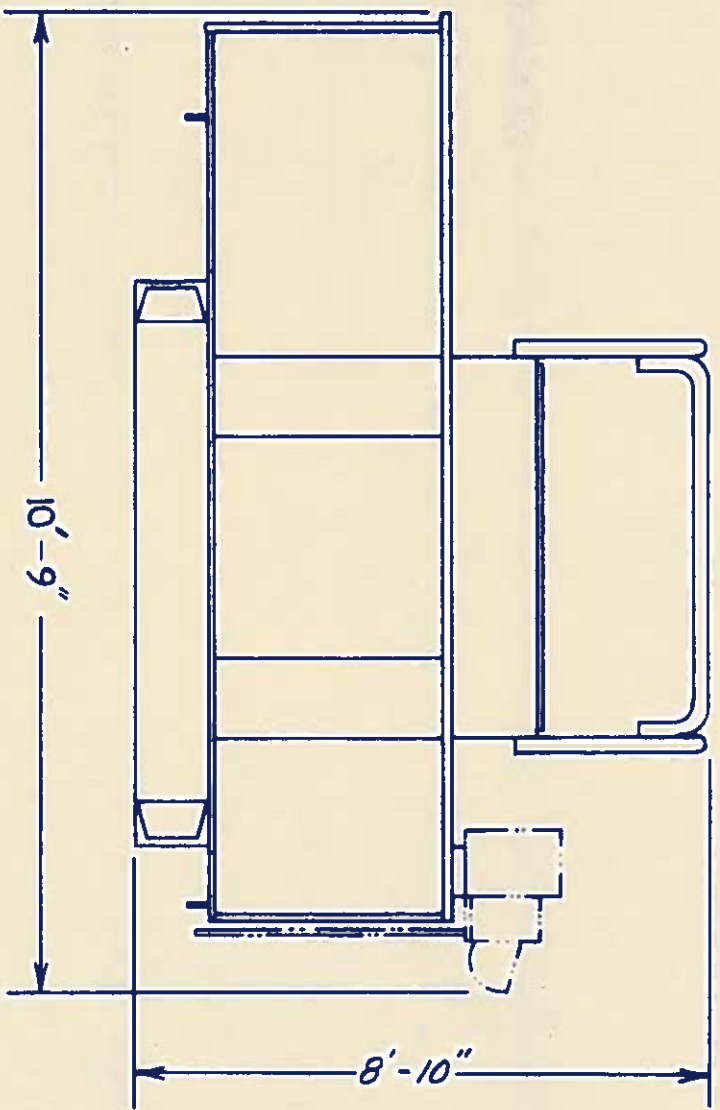
2-18-79

SECTION INCLUDES:

- Charging Box
- 1st. Comp. Ram, Liners & Knives
- Ejector Ram & Liners
- 1st. Comp. Cylinder & Mount
- Power Unit & Valves

APPROX. OVERALL DIMENSIONS

Length	38'-0"
Width	10'-9"
Height	8'-10"
Weight	30 Tons



WIDTH ACROSS CAR

EJECTOR CYLINDER TO BE REMOVED FOR SHIPMENT:

14" x 14" x 80"
APPROX. WT. 2,000#

5/11464

HRB-1C
CHARGING BOX SECTION
SHIPPING WEIGHTS & DIMENSIONS

HARRIS PRESS & SHEAR CORPORATION

CORDELE, GEORGIA

DATE:

DW. BY:

SCALE:

CH. BY:

DWG. NO.

SC-247

REV.

PAGE 1 of 1