Revised 1/25/94
Spec. #815-A
Dwg. Y-4270
Y-4271

SPECIFICATIONS
AMBACO MODEL 8043-10-150 WIDE MOUTH AUTO-TIE BALER WITH OVERSIZED FEED HOPPER

General Specifications:

Overall Length:	34'-3" (10,440 mm)
Maximum Width:	14'-8" (At Tier Station) (4470 mm)
Overall Height:	8'-6" (2590 mm)
Feed Opening:	80" x 41-1/2" (2032 x 1054 mm) 71-1/2" x 40-1/2" (1816 x 1030 mm) with Fluffers
Bale Chamber Dimension:	43" x 43" (1092 x 1092 mm)
Bale Size:	43" x 43" x Variable
Shipping Wgt:	46,800 Lbs. (21,230 kg) (Less Oil) 50,000 Lbs. (22,680 kg) (Less Oil) with Fluffers

Technical Data:

Main Cylinder:	10" I.D. Bore x 95" Stroke
Ram Face Pressure:	127 P.S.I. (on Material) (8.9 kg/cm^2)
Total Ram Thrust:	235,620 Lbs. (106,880 kg)
Pressure Settings:	Operation System Pressure - 3000 P.S.I. (211 kg/cm^2)
Hydraulic Circuit:	Hi-Low Pump with Full Regenerative Circuit
Motor HP:	Two 75 HP T.E.F.C., 460V, 3 Ph, 60 Hz. Std.
Oil Cooler:	Two Air/Oil Heat Exchangers
Oil Capacity:	400 U.S. Gallons (1,500 Liters)
Operating Controls:	General Electric Series 90 Programmable Controller. Operator Interface with Diagnostic Display. Digital Bale Length Readout. Bale Length programmed by operator.
Auto-tier:	AMBACO Electro-hydraulic tier unit for 10 GA. black annealed coil wire. Wire feed system for 1000# coil wire.

Performance Data:

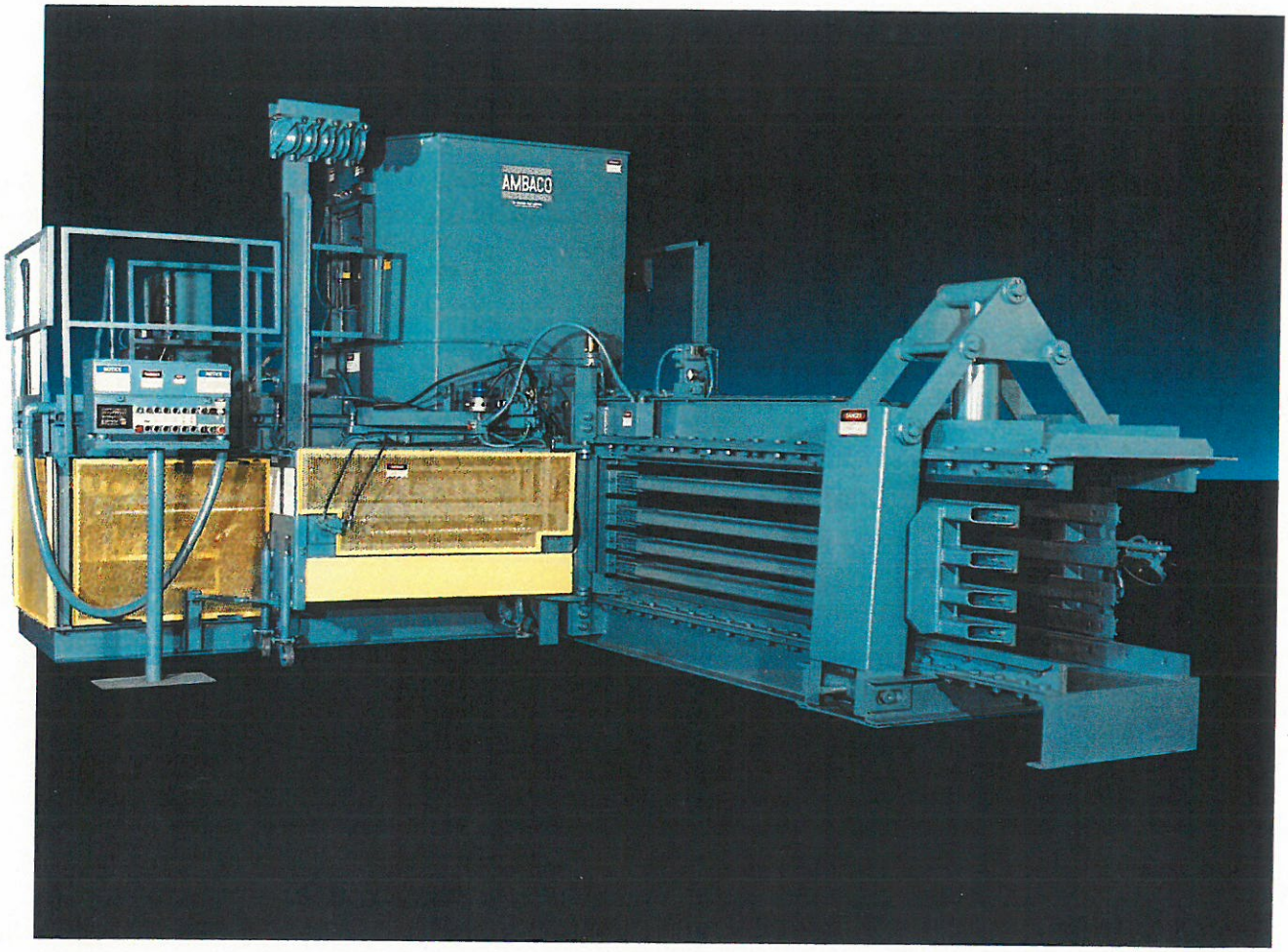
No Load Cycle Time:	9.5 Sec.	Under Load Cycle Time:	14.6 Sec
Cycles Per Minute:	6.3/Min	Cycles Per Minute:	4.1/Min
Volumes Per Hour:	35,160 Ft^3/Hr	Volumes Per Hour:	22,850 Ft^3/Hr

Material to be Processed	Loose Infeed Density #/Ft^3	Tons Per Hour Production @ 65% Loading Efficiency
Old Corrugated Containers - O.C.C.	Estimated 2.5#/Ft.^{3}	Up to 18 TPH
Old Newspapers - O.N.P.	Estimated 3#/Ft^3	Up to 22 TPH *
High Grade Paper	Estimated 3.5#/Ft^3	Up to 25 TPH *
Plastics - P.E.T./HDPE	Estimated 1#/Ft^3	Up to 7 TPH
Aluminum Cans (Whole)	Estimated 1#/Ft^3	Up to 7 TPH
Ferrous Cans (Whole)	Estimated 1.5#/Ft^3	Up to 10 TPH

Specifications subject to change without notice and without incurring responsibility to units previously sold. Actual production rates are entirely dependent upon user. Constant flow of material will make these rates achievable. Material preconditioning necessary with some materials.

* Use of American Baler Material Fluffer Recommended.

AMBACO® HORIZONTAL BALERS

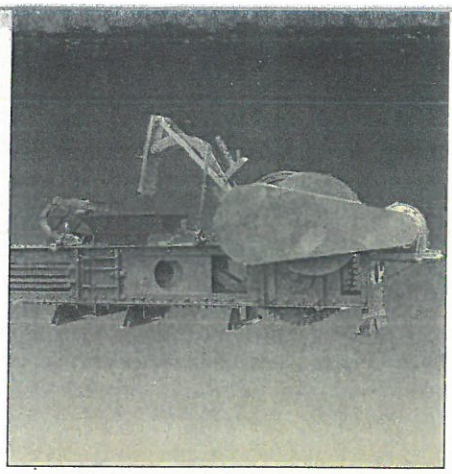


AMERICAN BALER COMPANY

A LEADER IN BALING FROM THE BEGINNING

The very idea of continuous horizontal baling originated with American Baler. The company's roots can be traced to a division of an agricultural machinery manufacturer. During the industrial growth of the 1940's, the need for faster baling of printing trim and other bulky products resulted in the formation of The American Baler Company.

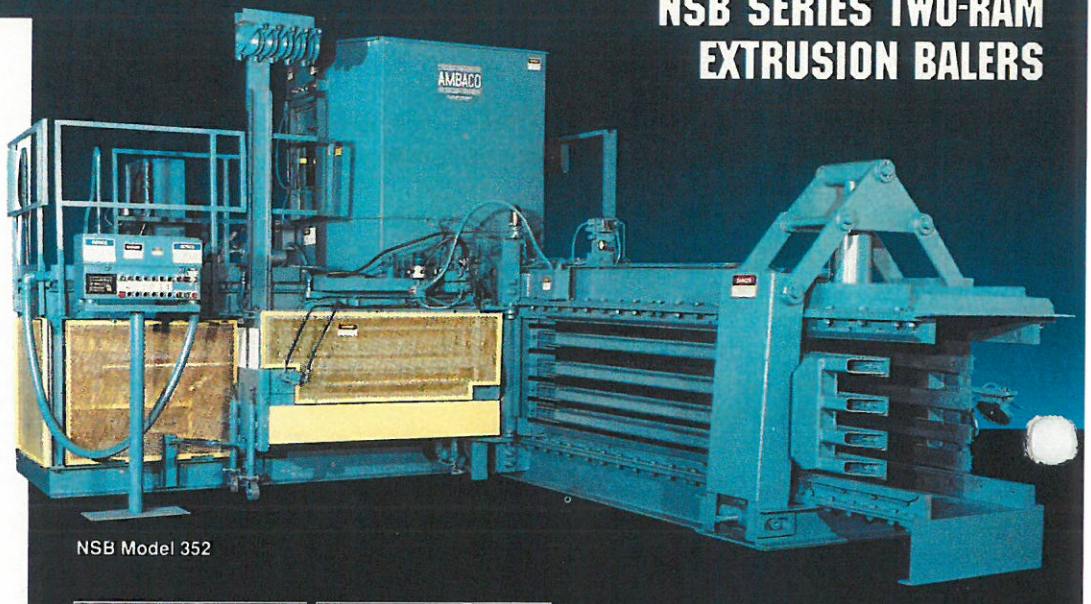
Early horizontal balers were mechanical models operating without the benefit of hydraulics. But, they were still far more advanced than their slower vertical style contemporaries.



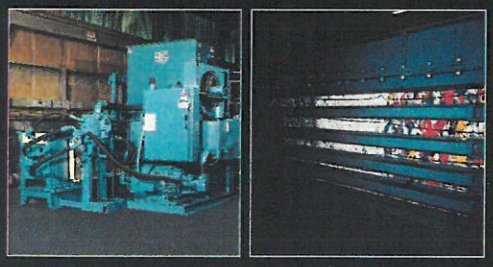
NSB SERIES TWO-RAM EXTRUSION BALERS

The NSB balers are two-ram high density extrusion models for high production without pre-shredding.

- Bale most stock grades without an operator
- Optional materials fluffer for automatic news and high grades baling
- Dense, high quality bales stack evenly, reduce storage, shipping and wire costs
- Easy grade changing prevents contamination of materials and provides consistent bale quality and density at any bale length
- Regenerative hydraulic system with differential circuit increases production, conserves power
- Programmable controller with diagnostic situation panel and microprocessor versatility
- Swing-away auto-tier for ease of cleaning and maintenance
- Bolted construction with easy-to-replace wear liners



NSB Model 352



(left) Opposite view of NSB baler shows high capacity hydraulic system. (right) Three grade changes shown in NSB 352 baler: in the foreground are HDPE detergent bottles, the center shows HDPE milk jugs and to the rear are UBC aluminum beverage cans. Note the clean grade separation and bale quality.

AMBACO INNOVATION MAKES BALERS MORE PRODUCTIVE

The Ambaco Fluffer helps to make better bales of news, high grades and other materials—and eliminates the need for an operator. A special cutting head mixes and conditions bulky materials, and, in most cases, eliminates the need for shredding. The result is higher quality bales.

The unique Ambaco design hydraulically swings the entire fluffer unit out of the hopper when baling grades not requiring fluffing. Manually operated doors are eliminated.

Optional on most Ambaco models.

Even back then, American Baler engineers were concentrating on smoothing out the directional changes in the baling ram. Note the huge flywheel on the vintage horizontal baler pictured here.

In the years since, American Baler has been responsible for nearly every major advance in horizontal baler development. When hydraulics came into popular use, American Baler introduced a number of innovations including the Ultramatic low-shock hydraulic system and the first automatic hydraulic bale density control with hydraulic four-way tension.

American Baler led the industry in offering the first proprietary solid state controls. Fully programmable controllers were introduced in the early 1980's. The newest microprocessor technology is apparent on all current Ambaco balers.

In 1971, American Baler introduced an improved bale tying system to make baler operation completely automatic. The Ambaco auto-tier mechanism pulls rather than pushes the bale wire between the bales. Its widely praised compact design places all moving parts on one side of the baler for ease of maintenance.

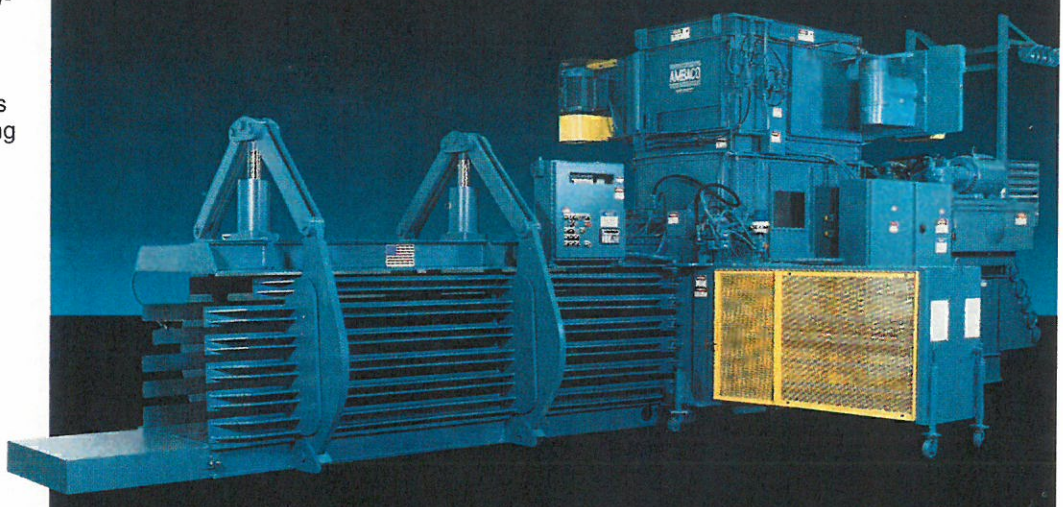
American Baler acquired the Economy Baler Division from another manufacturer in 1976. The Economy line of vertical and horizontal balers compliments the Ambaco product line, offering a variety of smaller capacity models.

Today, American Baler innovation continues to refine baler products that are already considered standards of the industry, and to introduce pacesetting new products as well. Now, more than ever, there is a proven Ambaco baler to fit your needs. And, it's backed by a level of experience and service before, during and after the installation that remains unmatched.

8043 SERIES WIDE MOUTH BALERS

The 8043 Series Wide Mouth Auto-Tier Balers are a showcase of proven Ambaco engineering "know-how". Their large feed hopper opening will accommodate almost any size of bulky product. A wide selection of power options provides optimum single ram extrusion baling for MRF systems and other multi-purpose baling applications.

- Power and pressure options tailored to your requirements
- Dual pumping systems provide redundancy and reduce power and motor starting costs
- Wide Mouth 80" x 43" hopper accepts most bulky materials. Reduced size hopper opening when fluffer system is used
- Superior bale densities for MRF systems. Highest capacities and densities in the industry for most recoverables
- Bolted construction with easy-to-replace wear liners

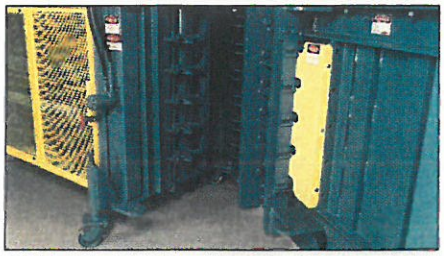


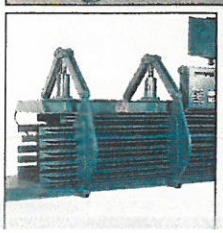
The 8043 above is equipped with dual Ambaco fluffers. For old newspapers, computer printout and most high-grade recyclables, the use of fluffers provides high production rates without an operator. In addition, fluffers assure premium quality bales from these materials–just what people expect from Ambaco.

The Ambaco Auto-Tier (top) ties all bale wires simultaneously and automatically. And it does it faster and more reliably than other types of tiers. An Ambaco tier pulls the wires between the bales instead of pushing them, resulting in better wire control and superior knot tying. The tier's *exclusive swing-away design* makes cleaning and periodic maintenance much easier.

Standard on all Ambaco auto-tie models.

4-Way Bale Density Control (bottom left) is the unique Ambaco method of hydraulically and mechanically squeezing each bale until maximum compressive force is utilized (the highest bale density is reached). The density control then relaxes to allow the bale to move on through the extrusion chamber. Note the massive hydraulically activated arms on each side of the baler that are part of this control system.





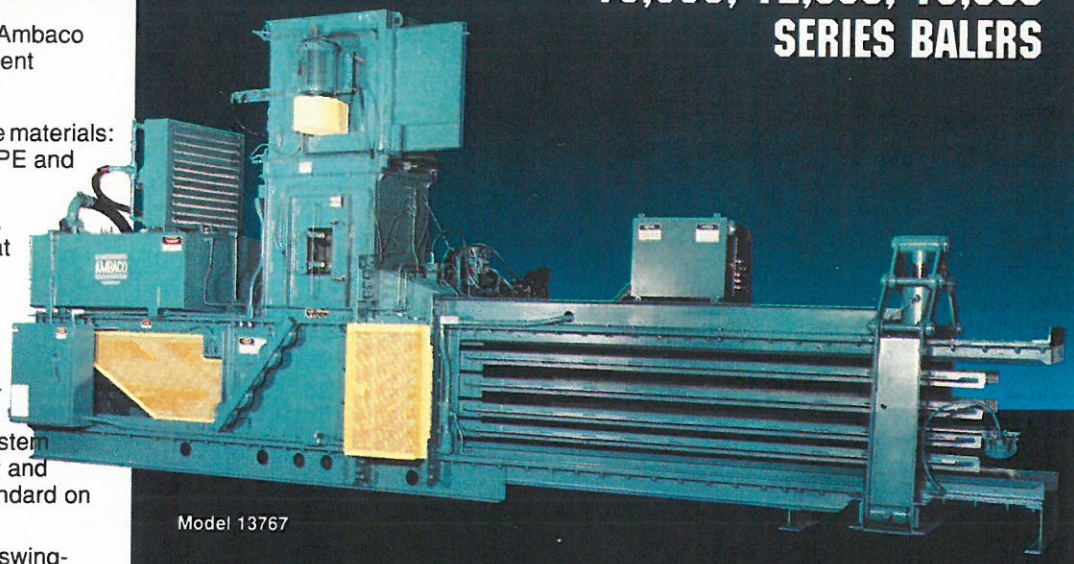
Ultramatic Hydraulic Systems (bottom right) on all Ambaco balers feature manifold block design which eliminates 70% of all the pipes and connections of conventional systems. Low-shock, cushion shift valves mount directly on the block. Dual pumps and a regenerative circuit assure maximum operating efficiency and capacity. The results are lower maintenance, smoother operation and longer baler life.

Consistently better bales is the reason people prefer Ambaco balers. Many balers are capable of making bales if they are loaded and cycled in a certain way. An Ambaco baler, on the other hand, is designed to continuously produce one high quality, high density bale after another. With an Ambaco baler, you save two ways: High density bales reduce your storage and shipping costs, and because of their design efficiency, Ambaco balers reduce your energy costs and wire costs per baled ton of material.

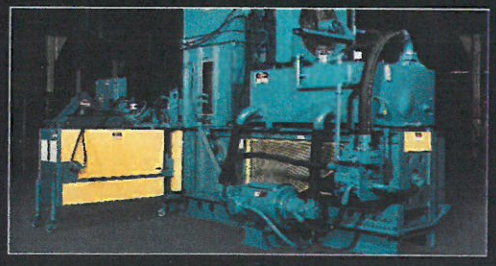
10,000, 12,000, 13,000 SERIES BALERS

These production-proven Ambaco balers excel in many different applications.

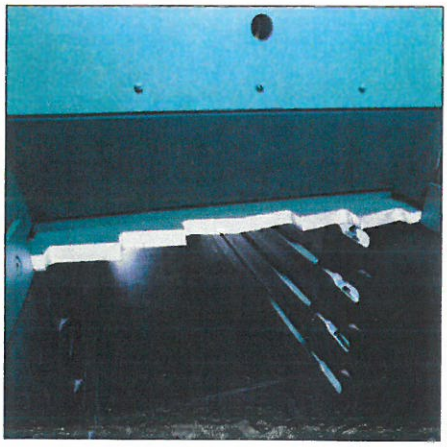
- Bale most compressible materials: paper, light metals, HDPE and PET plastics
- Make dense, stackable, premium quality bales at high production rates
- Choose from Ambaco, Allen-Bradley or other programmable controllers, all featuring selectable bale length
- Low-shock hydraulic system with regenerative circuit and cushion shift valves standard on all Ambaco balers
- Ambaco auto-tiers with swing-away design, super high density hydraulic systems and Ambaco materials fluffers are frequently requested options.
- Bolted construction with easy-to-replace wear liners



Model 13767



(left) Opposite view of Model 13767 shows the exclusive Ambaco swing-away auto tier that facilitates easy cleaning and maintenance. Also shown is the low-shock hydraulic system that is standard on all Ambaco balers.



The Ambaco 3-Stage Shear is standard on Ambaco wide mouth balers and optional on certain single ram models.

Its thick steel blade cuts through masses of bulky material, often eliminating the need for pre-shredding. The tool steel shear blade is mounted on the top of the main ram. As the ram advances, it pushes material against the shear. The blade's beveled, jagged edge slices it to the size of the bale chamber, allowing the ram to pack it into the growing bale with each stroke.

AMERICAN BALER COMPANY

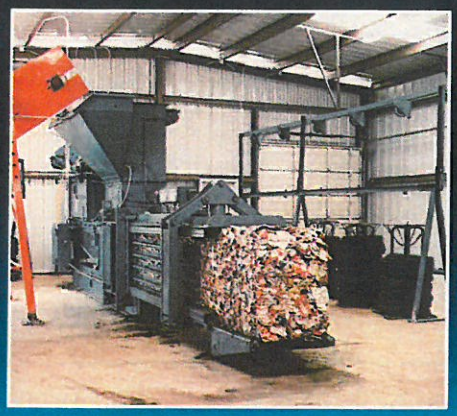
PUT AMBACO EXPERIENCE TO WORK FOR YOU

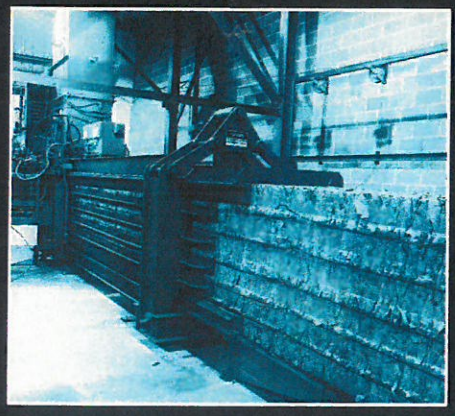
Whatever your application, American Baler Company can offer you unmatched baling experience. Nearly 50 years of building balers for every type of compressible material means you'll get expert assistance as well as exceptional products.

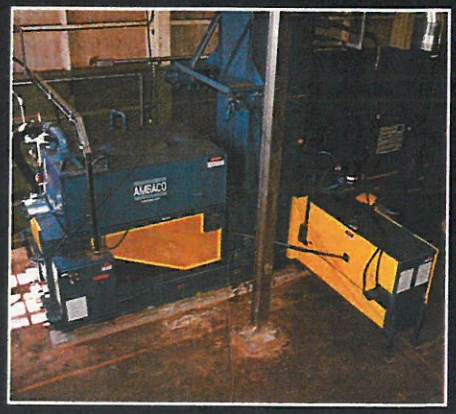
Our sales engineering staff is eager to help you analyze your requirements and develop the ideas you have. And they'll add solid recommendations based on their experience. With this knowledge, you'll be able to make informed decisions about your baling needs.

Regardless of the material or specialized production requirements, if it is possible to bale it, chances are American Baler has built and installed a baler for it.

Ambaco balers have earned a reputation for reliability and high production capability. American Baler has gained recognition for design leadership, application experience, and the most helpful customer service before, during and after the installation. Together, these strengths offer Ambaco customers around the world productive and profitable baling.







(clockwise from top left) Aluminum Scrap Baler, Ambaco Mineral Wool Baler with Automatic Pad Inserter, Ambaco Automatic Dewatering Baler, Special Wood Pulp Baler.

Special baler models such as those pictured above are designed to fit certain applications or production requirements.

The Aluminum Scrap Baler shown is an Ambaco Model 10567. It bales steel and aluminum cans and can switch easily to PET and HDPE plastic containers.

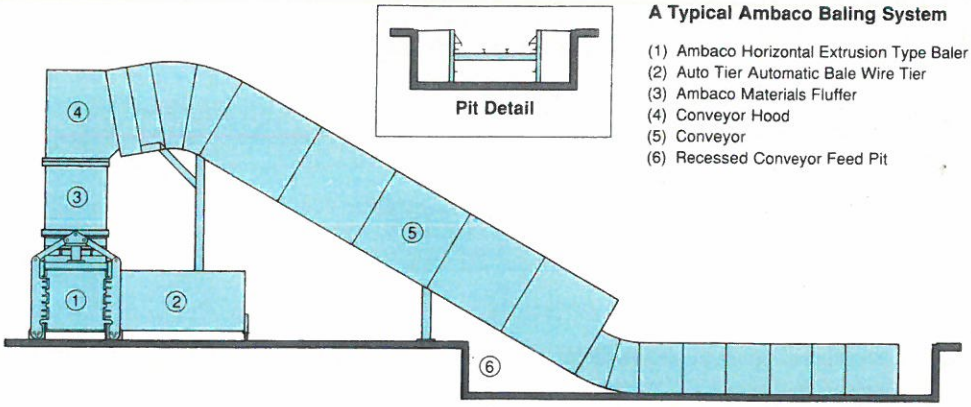
The Mineral Wool Baler shown is located in Kobe, Japan. It is an Ambaco Model 12427 WPI used for baling mineral wool produced from steel mill slag.

The Dewatering Baler shown here is an Ambaco Model 12757 DW which is designed to bale wet kraft pulp.

The Wood Pulp Baler shown is located in Western Canada. It as an Ambaco model 12477 installed to handle MDF (mechanically derived fiber) for export.

Many Ambaco balers can be customized with options or additional components to meet application requirements. Others need to be custom built from the ground up. If you need to find out exactly what your special application requires, write or call American Baler. Tell us what materials are involved and the quantities you intend to bale. We'll put Ambaco experience to work for you.

Ambaco Automated Baling Systems are designed to process materials without an operator. A typical system consists of an Ambaco baler with an auto-tier, an Ambaco materials fluffer and a conveyor. The feed end of the conveyor may be installed in a recessed area of pit in the floor of the facility for ease of loading. Your Ambaco dealer or factory representative can help you design and install a turnkey baling system. They are qualified to analyze your baling requirements and select the right equipment for your operations.



A Typical Ambaco Baling System

(1) Ambaco Horizontal Extrusion Type Baler
(2) Auto Tier Automatic Bale Wire Tier
(3) Ambaco Materials Fluffer
(4) Conveyor Hood
(5) Conveyor
(6) Recessed Conveyor Feed Pit

Specifications	10,000 Series	12,000 Series	13,000 Series	8043 Series	NSB Model 352	NSB Model 410
Baler Type	EXTRUSION - SINGLE RAM				EXTRUSION - 2 RAM	
Frame Cross Section, in./mm	26" x 36" (600 x 914)	30" x 40" (762 x 1016)	29" x 40" (737 x 1016)	43" x 43" (1092 x 1091)	29" x 40 (737 x 1016)	40" x 48"" (1016 x 1219)
Bale Length, in./mm	SELECTABLE TO SUIT LOADING PATTERN					
Expanded Bale Size, in./mm	27" x 37" (686 x 940)	31" x 41" (787 x 1041)	30" x 41" (762 x 1041)	44" x 44" (1118 x 1118)	"30" x 42 (762 x 1066)	41" x 50" (1041 x 1270)
Hopper Feed Opening, in./mm	26" x 34" (600 x 837)	30" x 34" (762 x 864)	30" x 44" (762 x 1118)	80" x 4½" (2032 x 1054)	72" x 56 (1829 x 1425)	94" x 60"" (2387 x 1524)
Main Cylinder, I.D.	7" - 8"	8" - 9" - 10"	9' - 10"	10" - 12"	9"	10"
Motor Horsepower	15 - 40	30 - 100	75 -125	(2) Up to 75 ea.	100 - 125	125 - 150
System Pressure, p.s.i.	2000 to 2500	2000 to 3000	1800 to 2500	3000	3000	3000
Total Compress. Force, lbs.	Up to 127,000	Up to 236,000	Up to 190,800	Up to 339,000	Up to 190,000	Up to 216,000
Ram Face Pressure, p.s.i.	82 to 134	84 to 196	85 to 131	127 to 184	159	123
Operating Rate, cf/hr. (no load)	Up to 13,000	Up to 21,000	Up to 29,000	Up to 33,600	Up to 18,000	Up to 32,000
Shipping Wt. (less oil), lbs./kg.	19,000 (8550)	26,000 (11,700)	32,000 (14,400)	53,000 (24,175)	56,000 (24,400)	62,000 (27,900)
Fluffers Available *	YES - SINGLE			YES - DUAL		
Baling Capacities, t.p.h.:	Up to:	Up to:	Up to:	Up to:	Up to:	Up to:
Old Newpapers	6 *	10 - 12 *	12 - 15 *	30-35*	30 *	40 *
Old Corrugated	5 S	10 -12 S	12 - 15 S	20	14	24
PET / HDPE	2 - 3	4	5	6	5 - 6	6 - 8
Aluminum Cans	4 - 5	6 - 8	7 - 9	11	10	15
High Grade Paper	4 - 5 * S	6 - 8 * S	7 - 15 * S	20 - 30 *	15 - 20 *	20 - 30 *

NOTE: CONSULT FACTORY OR YOUR AMBACO DEALER FOR DETAILED SPECIFICATIONS AND DRAWINGS. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT INCURRING RESPONSIBILITY TO UNITS PREVIOUSLY SOLD.
Actual production rates are entirely dependent on user. Constant flow of material will make these rates achievable. Material pre-conditioning necessary with some materials.
* Use of Ambaco Material Fluffer Recommended S Shredding Recommended for Bulky Materials

AMBACO

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