W721

AUTO-TIE TWO-RAM BALER

TECHNICAL SPECIFICATIONS

Newsprint, OCC, High Grade Paper, Plastic Film and Containers, Steel & Aluminum Cans, Non-Ferrous Metals

Meets all Current ANSI 245.51 Safety Standards

CHARGE BOX SPECIFICATIONS			DIMENSIONS	
Feed Opening Long Side (w/o Stamper)		94.3" L x 58" W	Length	26' - 4¼"
Charge Box (w/o Stamper)		95¼" L x 58" W	Width (floor Space)	19' - 0"
Charge Box Volume	89.5	Cu. Ft.	Height (Feed)	8' - 5½"
Approximate Machine Weight w/o Stamper (lbs.)		74,500	Approximate Machine Weight w/Stamper (lbs.)	76,500

PERFORMANCE DATA					
Hydraulic Power Unit		**50**	**75**	**T50**	**T75**
Horsepower		50	75	2 x 50	2 x 75
No-Load Cycle Time (in Seconds) [1]		50.5	34.4	25.3	18.7
Cycles Per Hour		71.3	104.7	142.3	192.5
Normal Displacement (cf/hr) [2]		6,381	9,368	12,738	17,233
Production [3]	1 #/cf (up to TPH)	1.9	2.8	3.8	5.2
	2 #/cf (up to TPH)	3.5	5.2	7.0	9.5
	3 #/cf (up to TPH)	4.6	6.7	9.2	12.4
	4 #/cf (up to TPH)	5.2	7.7	10.4	14.1

Bale Weights & Densities [1]

OCC	Up to 28 pounds per cubic foot	Up to 1,350 pounds
MOW & ONP	Up to 34 pounds per cubic foot	Up to 1,600 pounds
PET	Up to 25 pounds per cubic foot	Up to 1,150 pounds
UBC	Up to 21 pounds per cubic foot	Up to 1,000 pounds
Steel Cans	Up to 38 pounds per cubic foot	Up to 1,800 pounds
HDPE	Up to 26 pounds per cubic foot	Up to 1,250 pounds
Aluminum Siding	Up to 40 pounds per cubic foot	Up to 1,875 pounds
Radiators	Up to 64 pounds per cubic foot	Up to 3,000 pounds

Bale Specifications

Bale Size	30" H x 45" W x 60" L
Bale Volume	46.9 Cubic Feet
Bale Weights	Up to 1,700 pounds of Fiber
Bale Density	Up to 35 pounds per cubic foot

[1] No-load cycle time represents the approximate time it takes for the plunger to cycle from the full retract position, out to the midpoint of the eject chamber, and back to full retract position with an empty charge box and bale chamber.

[2] Normal displacement times include 3.5 seconds for valve shifting and decompression as time delays to allow the material to adequately disperse in baling chamber.

[3] Hourly production includes the delays above with every stroke. Tons per hour are based on operating efficiencies of 60% on 1#/CF material, 55% on 2#/CF material, 48% on 3#/CF material, 41% on 4#/CF material, 36% on 5#/CF material, and 31% on 6#/CF material and include the tie cycle. Bale weights and hourly production can be affected by variables including feed rate, moisture content, shape, size, thickness, and mass of the material being baled.

Electrical	50	75	T50	T75
Main Power (Motors)	50hp	75hp	2 x 50hp	2 x 75hp
Voltage	480V - 3 Phase - 60 Hz			
Starting	Across the line starting 480/3/60 (Standard)			
Auxiliary Motor / Pump	N/A	N/A	15hp	15hp
Cooling Fan	½hp	½p	3hp	2hp

Electric Eye ..... Two levels of photo sensors and one high level eye for precise control of baling.

Controls ..... Programmable Logic Controls enable automatic operation without an operator (for some materials) with custom baling modes for up to ten different grades including bale count, run time, and wire placement.

Economizer ..... If machine is inactive for a preset time, motor(s) will be shut off and only start agair when material blocks the photo sensors.

Compressing Statistics

Main Cylinder

Compressing Force	339,292	pounds; in tons → 169.6
Cylinder Diameter	12"	I.D. Bore x 8.5" Rod
Normal Operating Pressure	3,000	psi
Ram Face Pressure	209.8	psi
Stroke	126"	(Penetrates to within 8" of back wall)

Ejection Cylinder

Compressing Force	150,796	pounds; in tons → 75.4
Cylinder Diameter	8"	I.D. Bore x 5.5" Rod
Normal Operating Pressure	3,000	psi
Ram Face Pressure	138.5	psi
Stroke	77"	(Full Eject)

Technical Data	50	75	T50	T75
Pump	Fixed Displacement Vane			
Pump Flow (GPM)	96.1	136.7	190.8	267.6
Oil Reservoir Capacity [4]	500 Gallons	500 Gallons	800 Gallons	800 Gallons
Total System FLA	88	119	184	245
Cooling	Air to Oil with Fan			

Shear Blade ..... Serrated eight-stage single piece blade mounted on a 9° rake.

Versa-Door ..... Multi-function horizontal hydraulic door designed to separate bales to improve bale quality of some grades and minimize contamination; to hold plug bales in place during baling; and to increase discharge opening for ejecting over-sized bales. Versa-Door use will result in lower production rates.

Automatic Wire Tier ..... Accent 470 standard for 11 ga. Or 12 ga. Galvanized Wire.

Oil Type ..... ISO Grade 46 (in most climates)

Filtration ..... Combination of cleanable tank screens, magnets, and 6-micron 200 beta-rated filter with clogged filter indicator.

[4] Additional oil will be required after operating cylinders to fill hoses and cylinders.

Construction

Fabricated from heavy structural steel members and plate, gusseted and braced as required. Fitted in jigs and fixtures for proper alignment. Enhance platen wiper. Surface is painted with an industrial primer and two coats of industrial enamel.

Liners

Charge box floor liner strips alternate in thickness from ½" 500 Brinell to 1" HR across the width of the charge box; main ram bottom liner strips alternate in thickness from ¼" 500 Brinell and ¾" 500 Brinell and correspond with the baler floor; replaceable welded-on ¼" thick charge box side liners, and press box top and side liners (high abrasion resistant steel).

Shear Blade

Heavy duty, shimmable, replaceable, bolted-on serrated eight-stage single piece AR blade mounted on a 9° rake.

Standard Features

Main Ram Penetration to within 8" of end wall
NEMA 12 Electrical Enclosures: MCC & CC
Allen Bradley CompactLogix PLC
10" EXOR eSMART Touch Screen operator interface
Laser Ram Positioning
Conveyor Starter up to 10hp
11 or 12 ga. Accent 470 Wire Tier w/Startup Wire & Dust Cover
UL Listed Electrical Enclosure
Submersible Oil Heater Maintains Minimum Oil Temperatures
Category 3 Compliance
210 psi Main Ram Face Pressure
Trunnion Mounted Main and Eject Cylinders
Adjustable Plunger Hold Down Bars
Bale Table to Support Ejecting Bales
Left Hand or Right Hand Eject Available
Three (3) Days for Startup & Training by American Baler [5]
Floor Mounted Power Unit: See Baler Layout Drawings
Manifold Hydraulics
Remote VPN Internet Access [6]
Machine is Factory Tested Before Shipment

[5] Lower 48 States ONLY

[6] Allows possible remote troubleshooting and program changes. Internet connection to the baler is the customer's responsibility.

Available Options

Vertical Stamper ..... 18.8 Ton vertical hydraulic ram mounted above the shear blade and designed to automatically press material below and away from the blades.

Tool Steel Shear Blades ..... Tool steel plunger (serrated) and beam blade (non-serrated) for non-ferrous metals and dirty materials, to provide longer life and less maintenance.

Variable Speed Conveyor Controls ..... Adjustable belt speed for different grades being baled.

Reduced Voltage Starting ..... Used to reduce electrical startup draw.

Plastic Strapper ..... Utilizes plastic strapping instead of baling wire.

Warranty

Subject to American Baler Company's "Terms and Conditions". Please see the **American Baler Warranty Policy**.