TIEger®Auto-Tie Baler

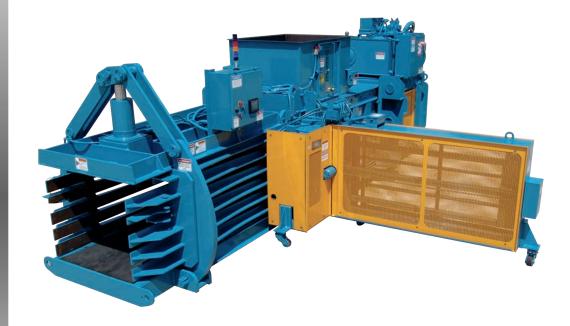


Exclusive gear driven tying system

Replaceable serrated body and ram shear blades

Single cylinder bale tensioning system

Spring loaded retainer locks, adjustable wire positioners, and adjustable inserter needle positioners





RECYCLING SOLUTIONS

Marathon's line of TIEger® auto-tie balers are precision built by our manufacturing specialists and feature the exclusive TIEger tying system.

TIEger Auto-Tie Baler

Highly Efficient and Precision Built

Marathon's TIEger auto-tie baler uses highly efficient gear twisters, which eliminates pigtails. This accounts for more than 10% reduction in wire consumption and related costs. The gear twisters and inserter needles are hydraulically driven and wire is dispensed directly from our unique box holders. Hydraulic wire positioners precisely align the wires for pick-up by the inserter needles, making the TIEger the most reliable tier on the market.

Marathon auto-tie balers are designed for high-productivity and ease of use with advanced electronics, such as the Allen-Bradley MicroLogix 1500 PLC and Maestro® color touch-screen operator interface. From this interface, the operator can control a variety of baler functions such as auto and manual modes, bale settings, system pressure, bale length, and perform computerized diagnostics. The main panel box features IEC controls.



RECYCLING SOLUTIONS



Single cylinder bale tensioning system with linkage bars provides up to 1 million pounds of extrusion force.



Spring loaded retainer locks, adjustable wire positioners, and adjustable inserter needle positioners.



Spring loaded counter wheel, located on the side of the baler, sends a digital reading to the operator interface.



The in-feed hopper has viewing windows on both sides and a hopper door with full gasket. Infrared photoelectric sensors are adjustable to the height of the hopper door window.



Wire postioners are on the twister cabinet side for precise twister alignment and wire pick-ups.



Wear resistant, replaceable Nylatron liners on the ram slides, 500 Brinell steel liners on the floor and ram bottom. Oversized ram hold-down bars are adjustable from the exterior of the machine.



TEFC motor with quiet running pump system.



Serrated body and ram bolt-in shear blades are shimmable and replaceable (not available in the PC-Series, WC, and EWC models).

RECYCLING SOLUTIONS

TIEger® Features and Benefits

Structural and Mechanical

- Single cylinder tension system, which leverages and generates force on all four sides.
- All pivot points have solid steel bushings and grease fittings.
- Adjustable Nylatron inserter needle positioners (on the side opposite the tie) maintain correct needle position.
- Inserter and twister assembly cabinet pivots for easy access and maintenance.
- Inserters and gear twisters are driven by hydraulic motors
- Hydraulic wire positoners
- Bolt-in Shear blades are replaceable (NS, WS and EWS only)
- 500 Brinell steel liners on the floor and ram bottom.

- Chute-type feed hopper with gasketed access door with viewing windows on both sides of the baler.
- Oversized ram hold-down bars are adjustable from the exterior of the machine.
- · Heavy-duty, spring-loaded retainer locks
- Wire box holders make loading quick and easy with no adjustment required. Ceramic wire guides and adjustable wire rollers
- Optional wire run-out system available

Electrical and Hydraulic

- Spring-loaded counter wheel located on the side of the baler sends digital bale length reading to the operator interface.
- Maestro® color touch screen operator interface with Allen-Bradley MicroLogix 1500 PLC; provides many functions such as diagnostics, bale set-up, bale length, and system pressure.
- Infrared photo electric sensors are adjustable to the entire height of the hopper door window
- UL® and CUL® Listed control systems
- Start-up alarm and beacon
- 460V/3-phase/60Hz high-efficiency power unit
- Power packs up to 150HP (dual motor units available)

- · Lockable main circuit breaker
- Low oil shutdown switch, high oil temperature shutdown switch, and oil shut-off valve
- · Quiet running pump system
- · Electrically actuated regen hydraulic system
- · Current and pressure transducers standard
- Air-to-oil cooler
- 150 to 600 gallon hydraulic oil reservoir (up to 200 gallons delivered with the unit)

Rental and Leasing Programs Available

For detailed specifications, recommendations, or free economic studies comparing various systems, contact Marathon Customer Care at

1-800-633-8974

Authorized Dealer:



Marathon Equipment Company P.O. Box 1798 Vernon, AL 35592-1798 800.633.8974 www.marathonequipment.com

NJPA Contract #060612-ESG



GSA

















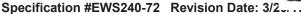


Pictures in this literature are illustrative only. Specifications are subject to change without notice in order to accommodate improvements to the equipment. Complies with ANSI standard Z245.5 and applicable OSHA Regulations. Products must be used with safe practice and in accordance with said regulations and standards



MARATHON AUTO-TIE BALER SPECIFICATIONS

TIEger SERIES MODEL EWS-240-72





Application - Most belt & air-conveyed recyclable materials weighing 4 pounds or less per cubic foot infeed density

Construction - Heavy-duty structural members properly jigged & fixtured to ensure proper alignment. CAD designed, reinforced and braced as required by engineering standards

GENERAL PERFORMANCE SPECIFICATIONS

N	lodel	EWS-240-72				
Horsepower		30	50	2x30	100	2x50
Total Flow, GPM		73	125	128	200	274
Average Dry Cycle Time in Sec.**		23.4	15.3	15	10.5	8.3
Cycles per Minute		2.6	3.9	4.0	5.7	7.2
Oil Capacity		150 Gal.	400 Gal.	300 Gal.	400 Gal.	600 Gal.
Displacement (CF/HR)		13,500	20,700	21,100	30,100	38,100
Tie Cycle Time		25 Seconds				
Infeed Density	Efficiency	TONS per Hour				
1 LB/CF	55%	3.7	5.7	5.8	8.3	10.5
2 LB/CF	47%	6.3	9.7	9.9	14.1	17.9
3 LB/CF	40%	8.1	12.4	12.7	18.1	22.9
4 LB/CF	33%	8.9	13.7	13.9	19.9	25.1

PRESSURE SPECIFICATIONS

Compressing Cylinder	10" Bore x 7" R x 86" S
Tension Cylinder	8 "Bore x 4-1/2" Rod x 6" Stroke
Normal Operating Pressure	3,000 PSI
Compressing Force	235,600 #
Ram Face Pressure (PSI)	120
Tension Force	987,500 #

DIMENSIONAL SPECIFICATIONS

Feed Opening	45" W x 72" L				
Charge Box Size	77" L x 48" W x 41" H				
Charge Box Volume		3	87.7 Cubic Feet		
Bale Size	42" x 48" x Variable				
Length	31'-8"				
Width	16'-7"				
Body Height	55"				
Top of Hopper	90"				
Estimated Weight (Including Power Unit)	36,500 #	37,500 #	38,100 #	38,700 #	44,300 #

BALE WEIGHT & DENSITIES

Bale Size - Approximately 42" High x 48" Wide x 72" Long - (84 cubic feet)

Maximum Weights & Densities*

OCC (old corrugated containers)	Up to 2500 # (30#/CUFT)
ONP - Fluffed	Up to 2500 # (30#/CUFT)

^{*} Bale weights, densities and production ratings are based on the typical infeed densities indicated. Feed rates and densities may be affected by feed method, moisture content and material shapes.

MARATHON balers meet existing ANSI standards at the time of manufacture

^{**} Cycle Times include 1-1/2 seconds on 30 HP & 2-1/2 seconds on 2x30 HP for decompression and valve shift.



MARATHON AUTO-TIE BALER SPECIFICATIONS

TIEger SERIES MODEL EWS-240-72





ELECTRICAL SPECIFICATIONS

Main Motor	30 HP, 50 HP, 2x30 HP, 100, or 2x50 HP - TEFC
Main Voltage	460 Volt - 3 Phase - 60 Hertz
Starting Arrangement	Across the Line
Motor Control Center	UL Listed NEMA 4 Enclosure
Control Voltage	24 Volt DC - 120 VAC
Controls	PLC Controls with Bale Recipes and Diagnostics
Operator Interface	6.5" TFT Color Touchscreen
Disconnect	Lockable Circuit Breaker

HYDRAULIC SPECIFICATIONS

Powerpack Type	Flooded Suction Type with High-Flow Hydraulic Manifold
Pump System - 3000 PSI	Hi-Lo Vane Pump (30 HP, 50 Hp, & 100 Hp) & Piston Pump (2x30
	HP), Piston-Vane Combination Pump (2x50 HP)
Powerpack Location	30 HP - Piggyback on Baler; 2x30, 50, 100 & 2x50 HP Floor-mounted
Air to Oil Cooler	1/2HP Fan (30 HP); 1HP Fan (2x30, 50, & 100 HP); 3HP (2x50 HP)
	3 HP (50HP); 2 HP (100 HP); 20 HP (2x50 HP); Cooling from Tier
Circulating Pump	Circuit (30 HP - 12 GPM: 2x30 HP - 24 GPM)
Filtration	10 Micron (50, 100, & 2x50 HP); 6 Micron (30 & 2 X 30 HP)
Tier Flow	12 GPM
Cylinder mount	Cross-tube self adjusting mount

GENERAL FEATURES

Automatic Wire Tier - MARATHON TIEger 5 tie Gear Type Wire Tier. Hydraulic drive inserter & twister with wire positioners and feed system. 100# spool feed standard. Swing away design. 10 or 11 Ga black annealed wire
Adjustable gib bars (hold-downs) from outside the machine with replaceable Nylatron wear plates
Replaceable AR 500 Floor Liners
Spring Loaded Bale Retainers
Infrared Actuators (1 set)
Regenerative hydraulic circuit
Automation Pkg w/Infeed Management System
Flex-Ten Bale Tensioning System
Ram shear blade is replaceable
Body shear blade is serrated & replaceable
Replaceable Nylatron Ram Seal Plates
Hopper View Door
3' Bale Table
Baler Mounted operator center with PLC Controls and 6.5" Color Touchscreen Interface
Paint - baked on - 12 standard colors

AVAILABLE OPTIONS

Additional 5' Bale Tables
Hopper Monitoring System (High Definition Camera & Monitor)
Material Stamper
10" Color Enhanced Multi-language Touchscreen Interface
Single & Dual Fluffers
Machine Mounted Power Packs (30 Hp Standard)
Conveyor Controls with VFD or Motor Starter
Additional Photocell Actuators
Oil Heater
Electrostatic Control System
Other voltages
Control Panel Heaters & Coolers
Wire Runout Sensor
Remote Wire Stand 1000# Coils
Bi-Level Remote Wire Stand for 1000# Coils
Other hopper arrangements
Modem