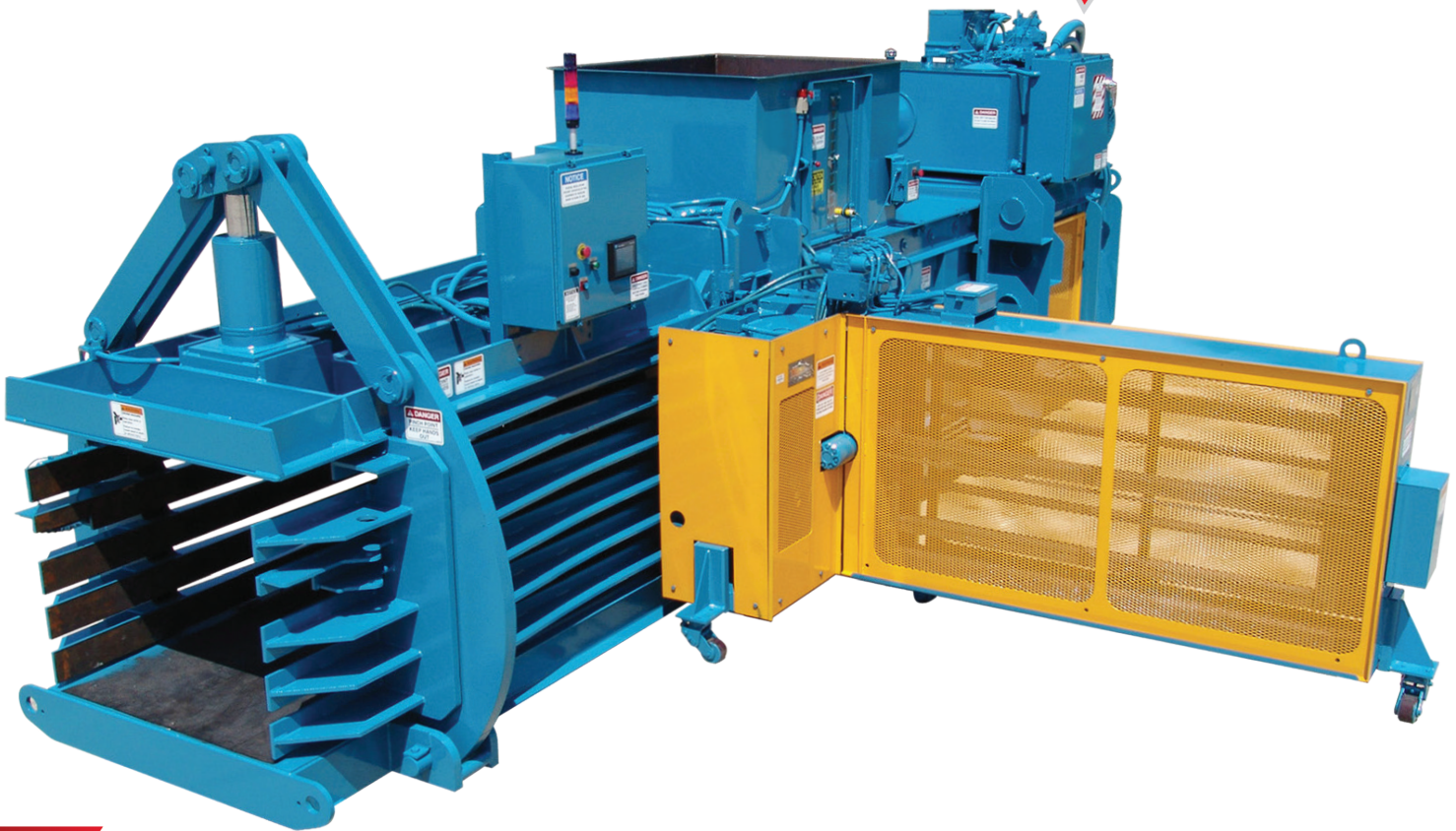


TIEger® Auto-Tie Baler



TIEger® Features

- ▼ 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

The Worldwide Leader in Quality Recycling and Compaction Equipment

Marathon® Equipment is known throughout the world as one of the leading manufacturers of quality on-site recycling products. The **Marathon** brand has been the industry standard for quality and innovation for more than 50 years, and includes auto-tie balers, manual-tie balers, two-ram balers, MRF systems, conveyors, vertical balers, auger-style compactors, cart dumpers, and a wide array of options for virtually any application.



Environmental
Solutions Group®

A DOVER COMPANY

TIEger® Auto-Tie Baler

Overview



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

Highly Efficient and Precision-Built

The **Marathon TIEger** auto-tie baler uses highly efficient gear twisters, eliminating pigtails. This results in more than a 10% reduction in wire consumption and related costs. The gear twisters and inserter needles are hydraulically driven and baling 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** one of the most reliable auto-tie balers on the market.

Marathon auto-tie balers are designed for high-productivity and ease of use with advanced electronics, such as the programmable PLC controller and 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.

TIEger[®] Auto-Tie Baler

Features and Benefits

Structural and Mechanical

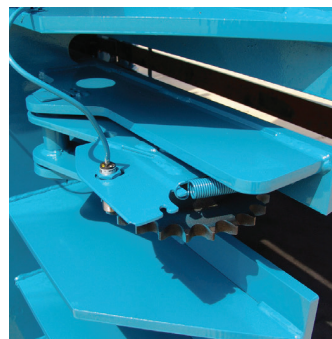
- ▼ Single-cylinder tension system, which leverages and generates force on all four sides
- ▼ All pivot points have solid-steel bushings and grease fittings
- ▼ Adjustable inserter needle positioners (on the side opposite the tie) maintain correct needle position
- ▼ Inserter and twister assembly cabinet pivots for easy access and maintenance
- ▼ Inserters and gear twisters are driven by hydraulic motors
- ▼ Hydraulic wire positioners for precision alignment
- ▼ Bolt-in shear blades are replaceable (Only available on Narrow Shear, Wide Shear, and Extra Wide Shear models)
- ▼ 500 Brinell steel wear liners on the floor and ram bottom
- ▼ Chute-type feed hopper with access door equipped with viewing windows on both sides of the baler
- ▼ Several hopper styles to choose from, such as hand-feed, or chute-feed, as well as various types of conveyor in-feed systems
- ▼ Oversized ram hold-down bars are adjustable from the exterior of the machine
- ▼ Heavy-duty, spring-loaded retainer locks to prevent material spring-back into the charge box
- ▼ Baling wire box holders make loading quick and easy with no adjustment required. Ceramic wire guides and adjustable wire rollers
- ▼ Optional wire run-out sensor notifies operators of the need to swap out baling wire



Single-cylinder bale tensioning system with linkage bars provides up to one 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 hopper door. Infrared photoelectric sensors are adjustable to the height of the hopper door window.

TIEger[®] Auto-Tie Baler

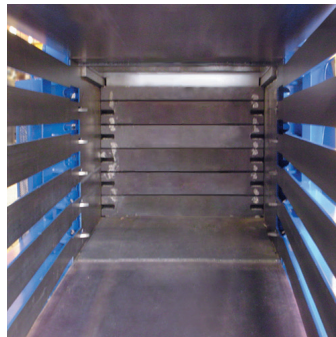
Features and Benefits

Electrical and Hydraulic

- ▼ Spring-loaded counter wheel located on the side of the baler sends digital bale length reading to the operator interface
- ▼ Color touch-screen operator interface with programmable logic controller provides many functions such as diagnostics, bale set-up, bale length, and system pressure
- ▼ Infrared photoelectric sensors are adjustable to the entire height of the hopper door window
- ▼ ANSI compliant start-up alarm and beacon
- ▼ 460V/3-phase/60Hz high-efficiency power unit
- ▼ Power Pack sizes up to 150HP (dual-motor units available)
- ▼ Lockable main circuit breaker prevents unauthorized machine activation
- ▼ Low oil shutdown switch, high oil temperature shutdown switch, and oil shut-off valve protects your valuable machine
- ▼ Quiet-running pump system
- ▼ Electrically actuated regen hydraulic system
- ▼ Hydraulic pressure transducers are standard for the most accurate hydraulic pressure readings
- ▼ Air-to-oil cooler
- ▼ 150- to 600-gallon hydraulic oil reservoir



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



Wear resistant, replaceable 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.



The Totally Enclosed Fan Cooled (TEFC) motor features a quiet-running pump system.



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

RECYCLING SOLUTIONS



Specifications	Power Unit	Cycle Time* No Load Average	Unit Weights**	Hydraulic Pump	Compression Force	Ram-Face Pressure	Feed Opening (L x W)	Bale Size (L x W x H)	Compressing Cylinder (Bore x Rod x Stroke)
PC-150-44	30 hp (22 kW)	10.5 sec.	19,600 lbs. (8890 kg)	73 gpm (276 lpm)	150,800 lbs. (671 kN)	129 psi (889 kPa)	44" x 27 3/4" (1118mm x 705mm)	72" x 30" x 42" (1829mm x 762mm x 1069mm)	8" x 6" x 58" (203mm x 152mm x 1473mm)
WC-150-60	30 hp (22 kW)	13.4 sec.	26,200 lbs. (11884 kg)	73 gpm (276 lpm)	150,800 lbs. (671 kN)	91 psi (627 kPa)	60" x 38 3/4" (1524mm x 984mm)	72" x 42" x 42" (1829mm x 1069mm x 1069mm)	8" x 6" x 74" (203mm x 152mm x 1880mm)
WS-150-60	30 hp (22 kW)	13.4 sec.	29,500 lbs. (13381 kg)	73 gpm (276 lpm)	150,800 lbs. (671 kN)	88 psi (607 kPa)	60" x 38 3/4" (1524mm x 984mm)	72" x 42" x 42" (1829mm x 1069mm x 1069mm)	8" x 6" x 74" (203mm x 152mm x 1880mm)
	50 hp (37 kW)	9.4 sec.	30,500 lbs. (13835 kg)	125 gpm (473 lpm)					
	2 x 50 hp (2 x 37 kW)	5.7 sec.	37,500 lbs. (17010 kg)	274 gpm (1037 lpm)					
WS-240-72	30 hp (22 kW)	22.9 sec.	31,600 lbs. (14334 kg)	73 gpm (276 lpm)	235,600 lbs. (1048 kN)	137 psi (945 kPa)	72" x 38 3/4" (1829mm x 984mm)	72" x 42" x 42" (1829mm x 1069mm x 1069mm)	10" x 7" x 86" (254mm x 178mm x 2184mm)
	50 hp (37 kW)	15.3 sec.	32,600 lbs. (14787 kg)	125 gpm (473 lpm)					
	2 x 50 hp (2 x 37 kW)	8.3 sec.	39,400 lbs. (17872 kg)	274 gpm (1037 lpm)					
WS-310-84	100 hp (75 kW)	11.7 sec.	35,000 lbs. (15876 kg)	200 gpm (757 lpm)	314,200 lbs. (1398 kN)	183 psi (1262 kPa)	84" x 38 3/4" (2134mm x 984mm)	72" x 42" x 42" (1829mm x 1069mm x 1069mm)	10" x 7" x 98" (254mm x 178mm x 2489mm)
	2 x 50 hp (2 x 37 kW)	9.2 sec.	40,600 lbs. (18416 kg)	274 gpm (1037 lpm)					
EWS-240-72	2 x 30 hp (2 x 22 kW)	15 sec.	47,800 lbs. (21682 kg)	128 gpm (485 lpm)	235,600 lbs. (1048 kN)	120 psi (827 kPa)	72" x 44 3/4" (1829mm x 1137mm)	72" x 48" x 42" (1829mm x 1219mm x 1069mm)	10" x 7" x 86" (254mm x 178mm x 2184mm)
EWS-240-84	100 hp (75 kW)	11.7 sec.	36,800 lbs. (16692 kg)	200 gpm (757 lpm)	235,600 lbs. (1048 kN)	120 psi (827 kPa)	84" x 44 3/4" (2134mm x 1137mm)	72" x 48" x 42" (1829mm x 1219mm x 1069mm)	10" x 7" x 98" (254mm x 178mm x 2489mm)
	2 x 75 hp (56 kW)	8.7 sec.	43,000 lbs. (19504 kg)	300 gpm (1136 lpm)					

* Cycle time calculated based on 1/2 penetration into bale chamber

** The baler foundation must be a minimum of 6" thick, 3000 psi steel-reinforced concrete. It is recommended that the baler be positioned on a 3/4" steel foundation plate to limit possible floor damage

Bale Weight Data	OCC	MOW (mixed office waste)	SOP (shredded office paper)	ONP	PET
PC-150-44	up to 1,500 lbs. up to 680 kg	up to 1,600 lbs. up to 725 kg	up to 1,600 lbs. up to 725 kg	N/A	N/A
WC-150-60	up to 2,200 lbs. up to 1000 kg	N/A	N/A	N/A	N/A
WS-150-60	up to 2,200 lbs. up to 1000 kg	up to 2,200 lbs. up to 1000 kg	N/A	up to 2,200 lbs. up to 1000 kg	N/A
WS-240-72	up to 2,200 lbs. up to 1000 kg	up to 2,200 lbs. up to 1000 kg	N/A	up to 2,200 lbs. up to 1000 kg	up to 1,300 lbs. up to 590 kg
WS-310-84	up to 2,400 lbs. up to 1090 kg	up to 2,400 lbs. up to 1090 kg	N/A	up to 2,400 lbs. up to 1090 kg	N/A
EWS-240-72	up to 2,500 lbs. up to 1130 kg	N/A	N/A	up to 2,500 lbs. up to 1130 kg	N/A
EWS-240-84	up to 2,500 lbs. up to 1130 kg	N/A	N/A	up to 2,500 lbs. up to 1130 kg	N/A

Pictures and mechanical diagrams in this literature are illustrative only and may not be to scale. Specifications are subject to change without notice in order to accommodate improvements to the equipment. Certified in compliance with ANSI standard Z245.2 and all applicable OSHA Regulations. Products must be used only by trained operators in accordance with the Operator Manual, as well as applicable regulations, laws, and ANSI standards.

We're Here To Help!

For detailed specifications, recommendations, or to request a site survey comparing various systems, contact the Marathon® Sales Team at MarathonSales@MarathonEquipment.com

Authorized Dealer:



Awarded Contract

Contract # 040621-MEC

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