

Innovative Engineering that Breathes New Life into the Material Recycling Process.

NEXGEN[®]

Recycling and material handling equipment.

By **MARATHON[®]**



**Environmental
Solutions Group**

A **DOVER** COMPANY

F U L L - L I N E C A T A L O G

GALAXY 2R® Two-Ram Balers

The GALAXY 2R Two-Ram Balers feature a combination of the latest electronics technology and advanced structural engineering to make the most powerful and efficient balers available. With the heavy-duty design of the bale chamber and full-penetration compaction ram, the GALAXY produces higher density bales. The programmable controller enables you to easily switch recyclable materials. With the metals package, the GALAXY is great for scrap applications.



Shown with optional
N-Pan™ Steelbelt Conveyor

Vertical Tie-Off



Shown with optional
EZ-TRAX® Steelbelt
Conveyor

FEATURES



NexDoor® — Multi-purpose door serves as a bale separator, bale release, and bale clamp, and enables variable bale dimensions.



High-Efficiency Power Unit — Power units are available from 30 HP up to 2 x 100 HP with TEFC motors, a flooded suction pumping system with high-flow hydraulic manifold, a 10 micron filtration system, pressure and current transducers, a separate cooling and tier circuit, and an air-to-oil cooler.



Maestro® Color Touch-Screen Operator — Interface with programmable controller offers automatic and manual controls, diagnostics, and bale setup functions.



Laser Positioning — Main ram, ejector ram, and NexDoor® are controlled by a laser positioning device. Tie positioning is determined by the laser and eliminates the need for a sprocketed counter wheel.



Adjustable Shear Beam — The body shear blades are adjustable from the exterior of the machine. This feature comes standard on all models except the 2R 150 and the 2R 190, where it can be added as an option.

Standard Models	Feed Opening	Available Power Units (HP)
2R 150N-57	40 3/4" x 57" (104 x 145cm)	30 or 50
2R 190N-70	40" x 70" (102 x 178cm)	50 or 2 x 30
2R 250N-84	40" x 84" (102 x 213cm)	50, 2 x 30, or 100
2R 310W-70	57" x 70" (145 x 178cm)	2 x 30, 100, 2 x 50, or 2 x 75
2R 310W-84	57" x 84" (145 x 213cm)	2 x 30, 100, 2 x 50, or 2 x 75
2R 310W-102	57" x 102" (145 x 259cm)	2 x 30, 100, 2 x 50, or 2 x 75
2R 450W-84	57" x 84" (145 x 213cm)	100, 2 x 50, 2 x 75, or 2 x 100
2R 450W-102	57" x 102" (145 x 259cm)	100, 2 x 50, 2 x 75, or 2 x 100

TIEger® Auto-Tie Balers

TIEger Auto-Tie Balers are precision built by our manufacturing specialists and feature the exclusive TIEger Tying System. This system uses highly efficient gear twisters, which means there are no twister hooks and no pigtails. **This results in more than a 10% reduction in wire consumption and related costs!** Hydraulic wire positioners precisely align the wires for pick-up by the inserter needles, making the TIEger the most reliable tying system on the market.



PC-Baler with optional dust collection system and in-feed conveyor



FEATURES

TIEger® Gear Twister — Inserter needles gather the 5 wires from both sides of the baler, precisely aligning them within the gear twisters. The gear pinion twists and then positions the wire for cutting, leaving no pigtails.



Hydraulic Wire Positioners — Positioners precisely align the tie wires for pick-up by the inserter needles for no missed wires.



Standard Models	Feed Opening	Available Power Units (HP)
PC 115-32	28" x 32" (71 x 81cm)	30, or 2 x 30
PC 150-32	28" x 32" (71 x 81cm)	30, or 2 x 30
PC 115-44	28" x 44" (71 x 112cm)	30, or 2 x 30
PC 150-44	28" x 44" (71 x 112cm)	30, or 2 x 30
WC 150-60	39" x 60" (99 x 152cm)	30, or 2 x 30
WC 150-72	39" x 72" (99 x 183cm)	30, or 2 x 30
EWC 150-60	45" x 60" (114 x 152cm)	30, or 2 x 30
EWC 150-72	45" x 72" (114 x 183cm)	30, or 2 x 30
NS 240-50	28" x 60" (71 x 152cm)	30, 50, 2 x 30, or 100
WS 150-60	39" x 60" (99 x 152cm)	30, or 2 x 30
WS 240-60	39" x 60" (99 x 152cm)	30, 50, or 2 x 30
WS 150-72	39" x 72" (99 x 183cm)	30, 50, or 2 x 30
WS 240-72	39" x 72" (99 x 183cm)	30, 50, 2 x 30, or 100
WS 240-84	39" x 84" (99 x 213cm)	100, 2 x 50, or 2 x 75
WS 310-84	39" x 84" (99 x 213cm)	100, 2 x 50, or 2 x 75
EWS 150-60	45" x 60" (114 x 152cm)	30, or 2 x 30
EWS 240-60	45" x 60" (114 x 152cm)	30, 50, or 2 x 30
EWS 190-72	45" x 72" (114 x 183cm)	30, 50, or 2 x 30
EWS 240-72	45" x 72" (114 x 183cm)	30, 50, 2 x 30, or 100
EWS 240-84	45" x 84" (114 x 213cm)	100, 2 x 50, or 2 x 75

Maestro® Color Touch-Screen Operator Interface — Controls a variety of baler functions, such as auto and manual modes, bale settings, system pressures, and bale length; performs computerized diagnostics. Main panel box features IEC controls.



High-Efficiency Power Unit — Up to 2 x 75 HP with several dual-motor units available. Each features a quiet running pumping system, low oil shutdown switch, high oil temperature shutdown switch, oil shut-off valve, electrically actuated regen hydraulic system, and current and pressure transducers.



Single Cylinder Bale Tensioning System — Provides up to 400 tons of tension force! Linkage bars apply pressure on all four sides.



See the TIEger brochure for many other exciting features!

Manual-Tie Horizontal Balers

NEXGEN® offers a wide variety of Manual-Tie Balers to fit your application, throughput, and budget requirements. These units can be equipped with a conveyor or a customized hopper to accommodate your material.

GEMINI® Series Multi-Material Balers

The Gemini 3560® and Gemini-Xtreme® Balers are moderate-duty, closed-end horizontal balers that enable you to process a range of materials, such as PET, aluminum or steel cans, paper, plastics, OCC, newsprint, and magazines. With the vertical tie-off, no fluffing or pre-processing is required.



Standard Features: Full penetration ram for maximum compaction and full bale ejection. Programmable, UL Listed controller permits automatic or manual operation. Twin cross-cylinders with 20 HP motor deliver 34-second cycle time. Bale size 30"H x 48"L x 60"W. Wire guides for quick and easy ties.



Shown with optional EZ-TRAX® Conveyor

Vertical Tie-Off

Standard Models	Clear Top Opening (L x W)	Motor
GEMINI 3560	35" x 57" (89 x 145cm)	20 HP
GEMINI-Xtreme	35" x 54 ¾" (89 x 139cm)	20 HP

Side-Eject Balers

The patented line of Side-Eject Horizontal Balers is uniquely engineered for space savings and maximum productivity. The bale "server island" ejects the bale for quick and easy pick-up by a forklift, enabling you to switch recyclables without contamination to maximize the value of your product and minimize spillage between bales. Front bale tie-off saves valuable floor space and eliminates trips behind the baler.



Standard Features: Patented bale server island boasts quick and easy bale removal and wire guides for front bale tie-off, and eliminates trips behind the baler. Bale Made light signals when the bale is ready to be ejected. Serrated body shear blades. Bolt-on, adjustable, and replaceable ram shear blades. Spring-loaded retainer locks for springback control. Chute feed hopper with inspection door and interlock switch. Hydraulic door latch (not standard on 620E). Programmable controller. Advanced power pack design.



The wire guides direct the bale ties from the front, around the bale, and back to the front, eliminating the need to go behind the unit.



Shown with optional cart dumper

Horizontal Tie-Off

Standard Models	Clear Top Opening (L x W)	Motor
SE-503042-620-E	50" x 28" (127 x 71cm)	20 HP
SE-503042-720	50" x 28" (127 x 71cm)	20 HP
SE-503042-830	50" x 28" (127 x 71cm)	30 HP
SE-504242-830	50" x 40" (127 x 102cm)	30 HP
SE-504842-830	50" x 46" (127 x 117cm)	30 HP
SE-604842-830	60" x 46" (152 x 117cm)	30 HP
SE-503042-950A-UBC	50" x 28" (127 x 71cm)	50 HP
SE-504230-950A-UBC	50" x 40" (127 x 102cm)	50 HP

ATLAS® Non-Ferrous Horizontal Balers

The ATLAS Series offers the most affordable, highly efficient, mid-size balers for the non-ferrous scrap industry. They feature extra heavy-duty construction to meet the demands of daily use, and each unit has a high-efficiency power unit designed for maximum productivity and minimal maintenance. The ATLAS ET™ (Extra Tough) features 500F liners and S-7 hardened steel ram and body shear blades for even tougher application requirements.



Vertical Tie-Off

Standard Models	Clear Top Opening (L x W)	Motor
ATLAS	45" x 56" (114 x 142cm)	30 HP
ATLAS ET	45" x 56" (114 x 142cm)	50 HP

Standard Features: Produces a 48"H x 60"L x 30"W size bale. Bolt-on replaceable body and ram shear blades. Full penetration ram for maximum compaction that fully ejects the bales. Wire guides and tie-through bale chamber door. Hydraulic door latch. Programmable, UL-Listed, controller permits automatic or manual operation. High-efficiency power unit. Three-sided feed hopper. Electrical disconnect. Dual interlock on bale chamber door. Lower photocell control. Totally enclosed, fan-cooled (TEFC) motor. Heavy-duty construction.



Closed-End Multi-Material Balers

Closed-End Balers process a wide variety of material and up to 20 tons of OCC in a typical day's shift.

Standard Features: Gear-style bale length actuator activates the Bale Made light automatically, with no flag pole to engage or disengage. Photocell for automatic cycling. Heavy-duty, spring-loaded retainer locks. Reversible and replaceable ram shear blade. Serrated body shear blade. Programmable controller. Chute or hand-feed hopper. Heavy-duty power pack with 20 or 30 HP TEFC motor and key-operated start on/off switch. 460 volt with power disconnect switch. Center position valve. 10 micron return line filter and 100 mesh suction line strainer. Audio/visual start-up alarm.



Shown with optional cart dumper

Horizontal Tie-Off

Standard Models	Clear Top Opening (L x W)	Motor
CE-303042-620-E	30" x 28 1/4" (76 x 72cm)	20 HP
CE-303042-720	30" x 28 1/4" (76 x 72cm)	20 HP
CE-503042-720	50" x 28 1/4" (127 x 72cm)	20 HP
CE-503042-830	50" x 28 1/4" (127 x 72cm)	30 HP
CE-504242-830	50" x 39 3/4" (127 x 101cm)	30 HP
CE-504842-830	50" x 46 1/4" (127 x 117cm)	30 HP
CE-604242-830	60" x 39 3/4" (152 x 101cm)	30 HP
CE-604842-830	60" x 45 3/4" (152 x 116cm)	30 HP

Manual-Tie Horizontal Balers

STEALTH® Baler

NEXGEN's STEALTH Baler is specially designed for baling OCC and similar material, and is the most affordable horizontal baler on the market.

Standard Features: Large 60" x 46" feed opening produces OCC bales weighing up to 1400 lbs. Bale wires can be inserted through the door or sides. Hand feed-type hopper. 8–10 bales per day throughput. Start-up alarm. Manual controls. Electrical disconnect.

Optional Features: Photocell control, hydraulic bale door release, bale made alarm, chute-feed hopper, conveyor controls, and oil heater.



Horizontal Tie-Off

Standard Models	Clear Top Opening (L x W)	Motor
STEALTH	60" x 46" (152 x 117cm)	20 HP

Vertical Balers

High-density vertical balers are precision built for ease of use and maintenance-friendly access. Features such as the side-mounted self-contained power unit, front-facing panel box, and redundant feed gate interlock, all add up to a reliable baler for years of trouble-free recycling. The smart relay adds safety features, easy setup, and diagnostic capabilities to your baler. The pump and 10 HP motor are submerged in the hydraulic oil tank for quiet (76 dBA) and efficient operation, while producing 56,550 lbs. of force.

OPTIONAL FEATURES



A Bale Made light illuminates after a bale is made and notifies the operator when it is time to eject the bale.



Bale wire guides eliminate the need to go behind the baler for a complete front tie-off system. This is also beneficial for a corner-wall application where space is limited.



An optional lockable electrical disconnect can be added for local Lock-Out/Tag-Out. Oil heater option is also available.

V-6030HD



Vertical Tie-Off

Standard Models	Clear Top Opening (L x W)	Motor
V-6030 HD	60" x 25" (152 x 64cm)	10 HP
V-7230 HD	72" x 25" (183 x 64cm)	10 HP



Material Recovery Facility, City of Conway, AR

EZ-TRAX® Conveyor Systems

NEXGEN® offers custom-engineered conveying systems to handle a wide variety of bulky materials and scrap-handling applications. These range from light-duty sliderbeds to heavy-duty steelbelt conveyors and complete turn-key Material Recovery Facility (MRF) systems.

EZ-TRAX Conveyors fit many applications, such as this MRF in Lakeville, MA. It features dozens of sliderbed conveyors, sorting lines, sorting bins, platforms, and baler feed combination steelbelt conveyors.



This smaller MRF, located in Bedford County, VA, has a sliderbed sorting line conveyor fed by a combination chainbelt conveyor.

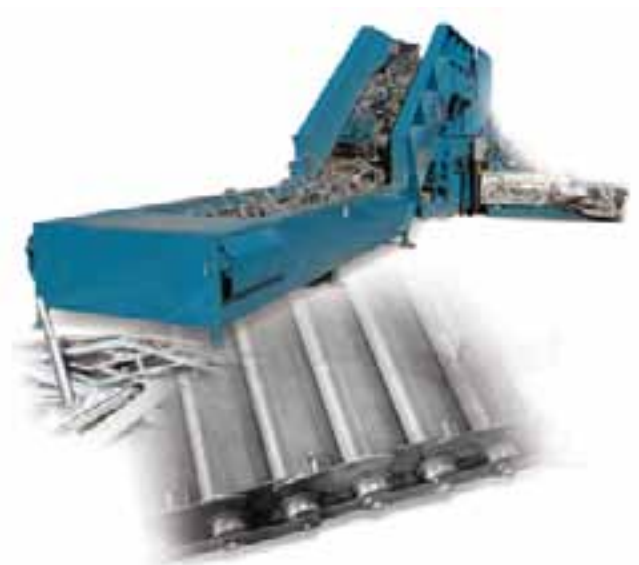
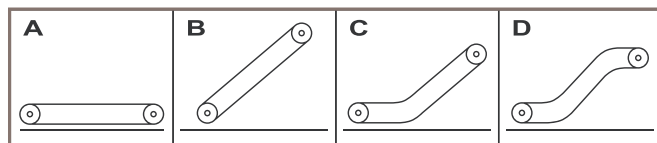


EZ-TRAX sliderbed and steelbelt conveyors are ideal add-ons for baler and compactor feed applications. They add efficiency to optimize productivity and throughput capacity. This below-ground sliderbed is feeding a Gemini 3560 manual-tie, horizontal baler.



Standard Models	Available Pitch	Available Belt Widths	Configs.
Combination Belt	4" (10cm), 6" (15cm), 9" (23cm)	36-48" (91-122cm), 36-72" (91-183cm), 48-84" (122-213cm)	A, B, C, D
Hinge Steelbelt	4" (10cm), 6" (15cm), 9" (23cm)	36-48" (91-122cm), 36-72" (91-183cm), 48-84" (122-213cm)	A, B, C, D
Apron/N-Pan	6" (15cm), 9" (23cm)	36-48" (91-122cm), 36-72" (91-183cm), 48-84" (122-213cm)	A, B, C, D
Standard Models	Belt Weights	Available Belt Widths	Configs.
Sliderbed	150lb (68kg), 200lb (91kg), 300lb (136kg)	24-72" (61-183cm)	A, B
Trough	220lb (100kg), 230lb (104kg)	24-60" (61-152cm)	A, B

CONFIGURATIONS



Equipment for Material Recovery Facilities (MRF) and Recycling Centers

Separating Equipment

NEXGEN® has a complete offering of separating equipment to make material handling and processing as efficient and accurate as possible.

Options include:

- ✔ Crossbelt magnetic sorters for ferrous materials, such as vegetable cans
- ✔ Optical sorters and perforators for plastics (PET, UBC, and HDPE)
- ✔ Eddy currents for aluminum cans
- ✔ OCC screens for cardboard
- ✔ Fiber screens for sorted and mixed office paper and newsprint



Sorting Platforms

Whether your process flow requires manual sorting of recyclables, is semi-automated, or fully automated, sorting and work platforms provide safe and sturdy areas for employees to sort materials or monitor their movement through the system. NEXGEN can custom-configure sorting platforms to meet your specific needs and equip them with safety rails, drop chutes, or equipment control panels. We will also help you design the proper stairways and enclosed ladder systems to help employees and maintenance personnel move safely and efficiently throughout your facility.



Material Storage

No matter what volume of materials your MRF or recycling center processes, adequate storage areas are a must. NEXGEN can provide mobile carts, or design and build storage bins and bunkers, to hold sorted materials awaiting baling and transfer. These storage areas can accommodate a range of materials and can be customized to the proper dimensions for your individual system. Options include lift gates, swing doors, tilted floors, and dump discharges.



Financing and Leasing

NEXGEN offers equipment financing and leasing programs. Over terms of 18 to 84 months, and upon credit approval, you can finance up to 100 percent of your equipment purchase. Attractive lease options offer excellent residual values, and special municipal rates are also available.



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