



Galaxy2R[®] Two-Ram Baler (Narrow Model)

*Full-penetration
compaction ram
produces high
density bales*

*Easily switch
between various
recyclable
materials with
the programmable
controller*

*Multi-purpose
door can serve as
a bale separator,
bale release, or
bale clamp*



**Environmental
Solutions Group**

A DOVER COMPANY

Marathon's line of Galaxy2R® narrow model balers feature a combination of state-of-the-art electronics and advanced structural engineering to make powerful and efficient balers.

Galaxy2R Two-Ram Narrow Model Baler

Powerful and efficient baling

Marathon's Galaxy2R two-ram narrow model balers feature a full-penetration compaction ram to produce high density bales. The programmable PLC controller features automatic and manual controls, diagnostics, and bale set-up functions. The controller allows you to easily switch recyclable materials. Adding the optional metals package makes the Galaxy2R narrow model perfect for scrap applications.

The Galaxy2R narrow model balers feature a multi-purpose door that can serve as a bale separator, bale release, or bale clamp. It also allows for variable bale widths. The Galaxy2R narrow model balers also come with components such as a high-efficiency power unit, adjustable shear beam, replaceable and reversible shear blades, and main ram and ejector ram laser positioning.

The Galaxy2R narrow model is designed to fit a variety of applications:

- Non-Ferrous scrap*
- Material Recovery Facilities (MRF)
- Recycling centers
- Distribution centers
- Large paper and plastic processors
- MSW (with solid waste package)

** Subject to maximum recommended material size*



Shown with optional operator platform



The Galaxy2R® narrow model features an adjustable shear beam that enables you to adjust the shear blades from the exterior of the machine.



High-efficiency power units available from 30 HP up to 2x100 HP

- TEFC motor (Totally Enclosed Fan Cooled)
- Flooded suction pumping system with high-flow hydraulic manifold
- 10 micron filtration system
- Pressure and current transducers
- Separate cooling and tier circuit and air-to-oil cooler.



The Galaxy2R narrow model features a heavy-duty reinforced honeycomb structure for maximum performance.



Maestro™ color touch-screen operator interface PLC programmable controller features automatic and manual controls, diagnostics and bale set-up functions. Available with multi-language function.



Multi-purpose door can serve as a bale separator, bale release, or bale clamp. It also allows for variable bale widths.



The main ram, ejector ram, and multi-purpose door are controlled by a long range laser sensor. The positioning is determined by the laser and eliminates the need for a counter wheel.



The Galaxy2R narrow model ram shear blade is replaceable and reversible. The body shear blade is serrated, adjustable, and replaceable. Replaceable 500 Brinell steel liners on the floor, sides, and platens offer superior wear resistance.



The optional stamper automatically clears shear jams.

EZ-TRAX™ Conveyors

Marathon Recycling Solutions offers custom engineered conveying systems to handle a wide variety of bulk material and scrap handling applications. These range from light-duty slider beds to heavy-duty steel belt conveyors and complete turnkey MRF systems.

Factory Start-ups

Marathon provides on-site set-up and comprehensive baler operation training for your personnel.



Galaxy2R® Two-Ram Baler (Narrow Model)

| Specifications | 2R150N | 2R190N | 2R250N |
|--|--|--|--|
| Power unit | 30 and 50 | 50 and 2x30 | 50 and 2x30 |
| GPM | 73 and 137 | 137 and 128 | 137 and 128 |
| Cycle Time (no load averages) | 11.9 to 19.1 sec. | 16.0 to 16.9 sec. | 18.4 to 19.5 sec. |
| Compression force | 150, 800 LBF | 190,850 LBF | 254,470 LBF |
| Feed opening (L x W) | 40 3/4" x 57" ?mm | 40 3/4" x 70" ?mm | 40 3/4" x 84" ?mm |
| Baler size (L x W x H) | 28'7" x 17'6" x 44" ?mm x ?mm x ?mm | 31'6" x 17'6" x 44" ?mm x ?mm x ?mm | 35'4" x 20'1" x 48 1/2" ?mm x ?mm x ?mm |
| Compressing cylinder bore | 8" ?mm | 9" ?mm | 9" ?mm |
| Compressing cylinder rod | 6" ?mm | 6" ?mm | 7" ?mm |
| Compressing cylinder stroke | 120" ?mm | 133" ?mm | 153" ?mm |
| Bale Weight Data | | | |
| OCC | up to 1,200 lbs. ? kg | up to 1,300 lbs. ? kg | up to 1,450 lbs. ? kg |
| SOP | up to 1,200 lbs. ? kg | up to 1,300 lbs. ? kg | up to 1,400 lbs. ? kg |
| ONP | up to 1,400 lbs. ? kg | up to 1,500 lbs. ? kg | up to 1,500 lbs. ? kg |
| PET | up to 800 lbs. ? kg | up to 900 lbs. ? kg | up to 1,100 lbs. ? kg |
| HDPE | up to 900 lbs. ? kg | up to 1,000 lbs. ? kg | up to 1,200 lbs. ? kg |
| UBC | up to 700 lbs. ? kg | up to 850 lbs. ? kg | up to 950 lbs. ? kg |
| Steel cans | up to 1,100 lbs. ? kg | up to 2,000 lbs. ? kg | up to 2,200 lbs. ? kg |
| MSW | up to 1,500 lbs. ? kg | up to 1,800 lbs. ? kg | up to 2,000 lbs. ? kg |
| AL extrusions* | up to 900 lbs. ? kg | up to 1,100 lbs. ? kg | up to 1,200 lbs. ? kg |
| AL siding | up to 1,100 lbs. ? kg | up to 2,000 lbs. 907 kg | up to 1,500 lbs. ? kg |
| AL/CU radiators | up to 1,200 lbs. ? kg | up to 1,400 lbs. ? kg | up to 1,500 lbs. ? kg |
| Misc. AL* | up to 1,400 lbs. ? kg | up to 1,600 lbs. ? kg | up to 1,800 lbs. ? kg |
| Cycle time calculated based on 1/2 penetration into bale chamber | | | |

Rental and Leasing Programs Available

Authorized Dealer:

For detailed specifications, recommendations, or free economic studies comparing various systems, contact Marathon Customer Care at **1-800-633-8974**.



Marathon Equipment Company
 P.O. Box 1798
 Vernon, AL 35592-1798
 800.633.8974
www.marathonequipment.com
 NJPA Contract #060612-ESG



Environmental Solutions Group
 A DOVER COMPANY

www.doveresg.com



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® GALAXY 2R®
TWO-RAM BALER SPECIFICATIONS
2R-190N-70 - FULL PENETRATION MODELS
 Specification #190N Revision Date: 6/4/2013

Application - Most medium density recyclable fibers, plastic and metal recyclables & low density MSW

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

GENERAL PERFORMANCE SPECIFICATIONS

| | | | |
|-------------------------------------|------------|---------------|-----|
| Charge Box Size | 70" | | |
| Horsepower | 50 | 2 x 30 | |
| GPM | 137 | 128 | |
| Average Dry Cycle Time in Sec.** | 16 | 17 | |
| Cycles per Minute | 3.7 | 3.5 | |
| Eject Cycle Time in Sec (4 ties)*** | 33 | 29 | |
| Oil Capacity | 400 Gal. | 300 Gal. | |
| Displacement (CF/HR) | 11,100 | 10,600 | |
| Infeed Density | Efficiency | TONS per Hour | |
| 1.5 LB/CF | 55% | 4.6 | 4.4 |
| 3 LB/CF | 46% | 7.7 | 7.3 |
| 4.5 LB/CF | 38% | 9.5 | 9.1 |

PRESSURE SPECIFICATIONS

| | |
|---|-----------------------------|
| Compressing Cylinder Diameter (in.) | 9 |
| Compressing Cylinder Stroke (in.) | 133 |
| Compressing Cylinder Effective Stroke (in.) | 111.5 |
| Compressing Cylinder Rod (in.) | 6 |
| Eject Cylinder Diameter (in.) | 7 |
| Eject Cylinder Stroke (in.) | 68 |
| Eject Cylinder Effective Stroke (in.) | 45 |
| Eject Cylinder Rod (in.) | 5 |
| Normal Operating Pressure (PSI) | 3,000 |
| Full Penetration Stroke | 5" From Compression Wall |
| Compressing Force (PSI) | 190,850 - 95 Tons (159 PSI) |
| Ejector Force (PSI) | 115,500# - 58 Tons (81 PSI) |

DIMENSIONAL SPECIFICATIONS

| | | |
|-------------------------------------|---|--------------------|
| Feed Opening | 40 3/4" W x 70" L | |
| Charge Box (Cube) | 43" W x 70" L x 28" H (49.6 CF) | |
| Length | 28'-0" (add 3'-6" for hyd clearance) | |
| Width | 14'-11" (add 2' f/ hyd clear; add 7' f/ bale table) | |
| Body Height | 44" | |
| Top of Hopper | 92" | |
| Weight (incl power unit, no oil) | 50 HP - 39,200 # | 2x30 HP - 40,600 # |
| Weight w/Stamper Option (incl p.u.) | 50 HP - 42,000 # | 2x30 HP - 43,400 # |

BALE WEIGHT & DENSITIES

Bale Size - Approximately 30" High x 45" Wide x 64" Long - (50 cubic feet)

Maximum Weights & Densities*

| | | | |
|--------------------------|-------------------------|-----------|-------------------------|
| OCC | Up to 1,350# - (27#/CF) | UBC | Up to 900# - (19#/CF) |
| ONP | Up to 1,450# - (29#/CF) | PET | Up to 1,000# - (20#/CF) |
| Mixed Office Waste | Up to 1,450# - (29#/CF) | HDPE | Up to 1,100# - (22#/CF) |
| Copper Wire | Up to 2,500# - (50#/CF) | Radiators | Up to 2,000# - (40#/CF) |
| Aluminum Siding or Sheet | Up to 1,700# - (35#/CF) | MSW | Up to 2,200# - (44#/CF) |

* 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. Production will be less when using the bale door. MARATHON® balers meet existing ANSI standards at the time of manufacture.

** Cycle times include 2-1/2 seconds for decompression and valve shift.

*** Eject cycle times are with a plug bale and no bale door.

Power unit does not include hydraulic fluid.

**MARATHON TWO-RAM BALER SPECIFICATIONS
GALAXY 2R-190N-70 MODELS**

ELECTRICAL SPECIFICATIONS

| | |
|----------------------|--|
| Main Motor | 50 or 2x30 HP- TEFC |
| Main Voltage | 460 Volt - 3 Phase - 60 Hertz |
| Starting Arrangement | Across the Line |
| Motor Control Center | UL Listed NEMA 12 Enclosure |
| Control Voltage | 24 Volt DC - 120 VAC |
| Controls | PLC Controls with Bale Recipes and Diagnostics |
| Operator Interface | TFT Color Touchscreen |
| Disconnect | Lockable Circuit Breaker |

HYDRAULIC SPECIFICATIONS

| | |
|------------------------|---|
| Powerpack Type | Flooded Suction Type with High-Flow Hydraulic Manifold |
| Pump System - 3000 PSI | Piston & Vane Pumps (50) Piston Pump (2 X 30) |
| Powerpack Location | Floor-mounted located on ejector side of compression cylinder |
| Air to Oil Cooler | 1 HP Fan |
| Circulating Pump | 15 HP(50 HP) |
| Filtration | 6 Micron |
| Tier Flow | 12 GPM |
| Cylinder mount | Cross-tube self adjusting mount |

GENERAL FEATURES

| | |
|--|---|
| Automatic Wire Tier | Accent 470 or L & P Model 330 or 340 or equal |
| Adjustable gib bars (hold-downs) from outside the machine | |
| Infrared Actuators (2 sets); Ultrasonic (2 sets) | |
| Regenerative hydraulic circuit | |
| Automation Pkg w/Infeed Management System | |
| Long Range Laser Sensor & Positioning on Main Ram, Ejector Ram, & bale door | |
| Ram shear blade is replaceable and reversible | |
| Body shear blade is serrated & replaceable, shimmable | |
| bale door System - serves as separation door, bale release, bale clamp & allows bale width variation | |
| Hopper View Door | |
| 5' Bale Table | |
| Free-standing operator center with PLC Controls and Color Touchscreen Interface | |
| CAD documented replaceable abrasive resistant steel liners on the floor, and sides | |
| Paint - baked on - 12 standard colors | |

AVAILABLE OPTIONS

| |
|---|
| Operator Platform & Stairs |
| Hopper Monitoring System (High Definition Camera & Monitor) |
| Operators Cabin with A/C & Heat |
| Material Stamper |
| 10" Color Enhanced Multi-language Touchscreen Interface |
| Solid Waste Package |
| Metals Package |
| Conveyor Controls with VFD or Motor Starter |
| Additional Photocell Actuators |
| Oil heater |
| Tongue and Groove Floor |
| Externally Adjustable Shear Beam |
| Other hopper arrangements |
| Modem |



P.O. Box 1798
Vernon, AL 35592-1798 USA
(205) 695-9105
Fax: (205) 695-7250

Specifications are subject to change without notice to accommodate improvements to the equipment. Certified in compliance with ANSI Regulations 2245.5 and all OSHA standards. Products must be used with safe practice and in accordance with said regulations and standards.