



**NEXGEN® GALAXY 2R®**  
**TWO-RAM BALER SPECIFICATIONS**  
**2R-450W-102 - FULL PENETRATION MODELS**  
 Specification #450W102 Revision Date: 1/15/2009

**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                  |            | 102"          |          |          |          |
| Horsepower                       |            | 100           | 2 x 50   | 2 x 75   | 2 x 100  |
| GPM                              |            | 200           | 274      | 300      | 434      |
| Average Dry Cycle Time in Sec.** |            | 23.9          | 18.1     | 16.7     | 12.3     |
| Cycles per Minute                |            | 2.5           | 3.3      | 3.5      | 4.8      |
| Eject Cycle Time (5 ties)***     |            | 30 Sec.       | 28 Sec.  | 28 Sec.  | 26 Sec.  |
| Oil Capacity                     |            | 400 Gal.      | 600 Gal. | 600 Gal. | 800 Gal. |
| Displacement (CF/HR)             |            | 14,900        | 19,700   | 21,400   | 29,000   |
| Infeed Density                   | Efficiency | TONS per Hour |          |          |          |
| 1.5 LB/CF                        | 55%        | 6.1           | 8.1      | 8.8      | 12.0     |
| 3 LB/CF                          | 46%        | 10.3          | 13.6     | 14.8     | 20.0     |
| 4.5 LB/CF                        | 38%        | 12.7          | 16.8     | 18.3     | 24.8     |
| 6 LB/CF                          | 32%        | 14.3          | 18.9     | 20.5     | 27.8     |

**PRESSURE SPECIFICATIONS**

|                           |                                     |
|---------------------------|-------------------------------------|
| Compressing Cylinder      | 12" Diameter - 160" Stroke - 9" Rod |
| Eject Cylinder            | 8" Diameter - 90" Stroke - 6" Rod   |
| Normal Operating Pressure | 4,000 PSI                           |
| Full Penetration Stroke   | 5" From Compression Wall            |
| Compressing Force (PSI)   | 452,400# - 226 Tons (270 PSI)       |
| Ejector Force (PSI)       | 201,000# - 100 Tons (188 PSI)       |

**DIMENSIONAL SPECIFICATIONS**

|                                     |  |               |               |                 |
|-------------------------------------|--|---------------|---------------|-----------------|
| Feed Opening                        | 57 3/4" W x 102" L                                 |               |               |                 |
| Charge Box (Cube)                   | 60" W x 102" L x 28" H (99.1 CF)                   |               |               |                 |
| Length                              | 35'-11" (add 3'-6" f/ hyd clearance)               |               |               |                 |
| Width                               | 18'-8" (add 2' f/ hyd clear; add 7' f/ bale table) |               |               |                 |
| Body Height                         | 55"  |               |               |                 |
| Top of Hopper                       | 98"  |               |               |                 |
| Weight (incl power unit, no oil)    | 100 -85,900#                                       | 2x50 -92,000# | 2x75 -93,000# | 2x100 -95,600#  |
| Weight w/Stamper Option (incl p.u.) | 100 -91,400#                                       | 2x50 -97,500# | 2x75 -98,500# | 2x100 -101,100# |

**BALE WEIGHT & DENSITIES**

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

**Maximum Weights & Densities\***

|                          |                         |            |                         |
|--------------------------|-------------------------|------------|-------------------------|
| OCC                      | Up to 1,700# - (34#/CF) | UBC        | Up to 1,100# - (22#/CF) |
| ONP                      | Up to 1,700# - (34#/CF) | PET        | Up to 1,500# - (30#/CF) |
| Mixed Office Waste       | Up to 1,700# - (34#/CF) | HDPE       | Up to 1,600# - (32#/CF) |
| Copper Wire              | Up to 3,000# - (60#/CF) | Steel Cans | Up to 2,000# - (40#/CF) |
| Aluminum Siding or Sheet | Up to 1,900# - (38#/CF) | MSW        | Up to 2,500# - (50#/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 **NexDoor®**. **NEXGEN®** 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.

**NEXGEN TWO-RAM BALER SPECIFICATIONS  
GALAXY 2R-450W-102 MODELS**

**ELECTRICAL SPECIFICATIONS**

|                      |  |
|----------------------|--|
| Main Motor           | 100 HP, 2x50 HP, 2x75 HP, or 2x100 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 - 4000 PSI | Low Pressure Vane Pump & High Pressure Piston Pump (100 HP Vane Pumps) |
| Powerpack Location     | Floor-mounted located on ejector side of compression cylinder          |
| Air to Oil Cooler      | 1 HP (100) - 3 HP (2x50, 2x75, & 2x100) Fan                            |
| Circulating Pump       | 2 HP(100 HP) - 20 HP(2x50, 2x75, & 2x100) - Includes Tier Circuit      |
| Filtration             | (100, 2x50, 2x75, & 2x100) 10 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  |   |
| Shear Beam is adjustable from outside the machine (S-7)  |   |
| 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, & NexDoor                          |   |
| Ram shear blade is replaceable and reversible  |   |
| Body shear blade is serrated & replaceable   |   |
| Tongue & groove charge chamber floor   |   |
| NexDoor 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  |
| Other wire tiers  |
| Other voltages  |
| Other hopper arrangements                                   |
| Modem   |