



**NEXGEN® GALAXY 2R®**  
**TWO-RAM BALER SPECIFICATIONS**  
**2R-450W-84 - FULL PENETRATION MODELS**  
 Specification #450W84 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		84"			
Horsepower		100	2 x 50	2 x 75	2 x 100
GPM		200	274	300	434
Average Dry Cycle Time in Sec.**		21.2	16.2	15	11.1
Cycles per Minute		2.8	3.7	4.0	5.4
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)		13,800	18,100	19,600	26,400
Infeed Density	Efficiency	TONS per Hour			
1.5 LB/CF	55%	5.7	7.5	8.1	10.9
3 LB/CF	46%	9.5	12.5	13.5	18.2
4.5 LB/CF	38%	11.8	15.5	16.8	22.6
6 LB/CF	32%	13.2	17.4	18.8	25.3

**PRESSURE SPECIFICATIONS**

Compressing Cylinder	12" Diameter - 142" 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 84" L			
Charge Box (Cube)	60" W x 84" L x 28" H (81.5 CF)			
Length	32'-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 -82,100#	2x50 -88,300#	2x75 -89,300#	2x100 -91,800#
Weight w/Stamper Option (incl p.u.)	100 -87,100#	2x50 -93,300#	2x75 -94,300#	2x100 -96,800#

**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-84 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