



NEXGEN AUTO-TIE BALER SPECIFICATIONS

TIEger SERIES
MODEL WS-310-84



Specification #WS310-84 Revision Date: 1/23/2009

Application - Most belt & air-conveyed recyclable materials weighing 6 pounds or less per cubic foot infeed density

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

GENERAL PERFORMANCE SPECIFICATIONS

Model		WS-310-84		
Horsepower		100	2x50	2x75
Total Flow, GPM		200	274	300
Average Dry Cycle Time in Sec.**		11.7	9.2	8.7
Cycles per Minute		5.1	6.5	6.9
Oil Capacity		400 Gal.	600 Gal.	600 Gal.
Displacement (CF/HR)		27,300	34,800	36,800
Tie Cycle Time		25 Seconds		
Infeed Density	Efficiency	TONS per Hour		
1.5 LB/CF	55%	11.3	14.4	15.2
3 LB/CF	45%	18.4	23.5	24.8
4.5 LB/CF	38%	23.3	29.8	31.5
6 LB/CF	32%	26.2	33.4	35.3

PRESSURE SPECIFICATIONS

Compressing Cylinder	10" Bore x 7" R x 98" S
Tension Cylinder	8" Bore x 4-1/2" Rod x 6" Stroke
Normal Operating Pressure	4,000 PSI
Compressing Force	314,100
Ram Face Pressure (PSI)	193
Tension Force	987,500

DIMENSIONAL SPECIFICATIONS

Feed Opening	39" W x 84" L		
Charge Box Size	89" L x 42" W x 41" H		
Charge Box Volume	88.7 Cubic Feet		
Bale Size	42" x 42" x Variable		
Length	33'-8"		
Width	15'-6"		
Body Height	55"		
Top of Hopper	90"		
Estimated Weight (Including Power Unit)	35,000 #	40,600 #	41,200 #

BALE WEIGHT & DENSITIES

Bale Size - Approximately 42" High x 42" Wide x 72" Long - (73.5 cubic feet)

Maximum Weights & Densities*

OCC (old corrugated containers)	Up to 2400 # (32.5#/CUFT)
MOW (mixed office waste)	Up to 2400 # (32.5#/CUFT)
ONP - Fluffed	Up to 2400 # (32.5#/CUFT)

* 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.

NEXGEN balers meet existing ANSI standards at the time of manufacture

** Cycle Times include 1-1/2 seconds on 30 HP & 2-1/2 seconds on 2x30 HP for decompression and valve shift.



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ELECTRICAL SPECIFICATIONS

Main Motor	100 HP, 2x50 HP or 2x75 HP - TEFC
Main Voltage	460 Volt - 3 Phase - 60 Hertz
Starting Arrangement	Across the Line
Motor Control Center	UL Listed NEMA 12 Enclosure (2x50 & 2x75 HP); NEMA 4 (100)
Control Voltage	24 Volt DC - 120 VAC
Controls	PLC Controls with Bale Recipes and Diagnostics
Operator Interface	6.5" TFT Color Touchscreen
Disconnect	Lockable Circuit Breaker

HYDRAULIC SPECIFICATIONS

Powerpack Type	Flooded Suction Type with High-Flow Hydraulic Manifold
Pump System - 3000 PSI	100 HP - Hi-Lo Vane Pumps; 2x50 HP & 2x75 HP - Low Pressure Vane Pump & High Pressure Piston Pump
Powerpack Location	Floor-mounted
Air to Oil Cooler	1 HP Fan (100 HP); 3 HP Fan (2 x 50 HP & 2 x 75 HP)
Circulating Pump	2 HP (100 HP); 2x50 HP & 2x75 HP - 20 HP with Tier Pump
Filtration	10 Micron (100, 2 x 50 & 2 x 75 HP)
Tier Flow	12 GPM
Cylinder mount	Cross-tube self adjusting mount

GENERAL FEATURES

Automatic Wire Tier - Nexgen TIEger 5 tie Gear Type Wire Tier. Hydraulic drive inserter & twister with wire positioners and feed system. 100# spool feed standard. Swing away design. 10 or 11 Ga black annealed wire
Adjustable gib bars (hold-downs) from outside the machine with replaceable Nylatron wear plates
Replaceable AR 500 Floor Liners
Spring Loaded Bale Retainers
Infrared Actuators (1 set)
Regenerative hydraulic circuit
Automation Pkg w/Infeed Management System
Flex-Ten Bale Tensioning System
Ram shear blade is replaceable
Body shear blade is serrated & replaceable
Replaceable Nylatron Ram Seal Plates
Hopper View Door
3' Bale Table
Baler Mounted operator center with PLC Controls and 6.5" Color Touchscreen Interface
Paint - baked on - 12 standard colors

AVAILABLE OPTIONS

Additional 5' Bale Tables
Hopper Monitoring System (High Definition Camera & Monitor)
Material Stamper
10" Color Enhanced Multi-language Touchscreen Interface
Single & Dual Fluffers
Machine Mounted Power Packs (30 Hp Standard)
Conveyor Controls with VFD or Motor Starter
Additional Photocell Actuators
Oil Heater
Electrostatic Control System
Other voltages
Control Panel Heaters & Coolers
Wire Runout Sensor
Remote Wire Stand 1000# Coils
Bi-Level Remote Wire Stand for 1000# Coils
Other hopper arrangements
Modem