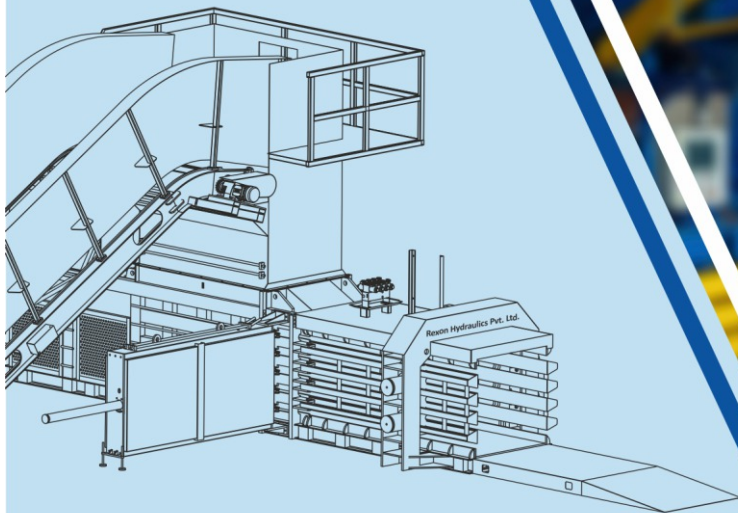




Rexon Hydraulics Pvt. Ltd.

Manufacturers of Automatic
Horizontal Paper Baler Machines



RX
Model

ABOUT US

Rexon Hydraulics Pvt. Ltd.

Manufacturers of Automatic Horizontal Paper Baler Machines,

We are a trusted name in the hydraulic machinery industry, known for delivering high-performance, fully automatic horizontal paper balers designed for modern waste management and recycling applications. Our machines help businesses compress, manage, and recycle paper and cardboard waste efficiently saving space, reducing manual work, and optimizing operations.

Precision Engineering

- ▶ Built with advanced hydraulics
- ▶ Heavy-duty construction
- ▶ Designed for continuous industrial use

Automation Excellence

- ▶ Fully automatic operation
- ▶ Minimum human intervention
- ▶ Increased productivity & efficiency

Customized Solutions

- ▶ Machines tailored to your needs
- ▶ Multiple capacities & configurations
- ▶ Space-efficient and user-friendly design

Reliable After-Sales Support

- ▶ On-time service & maintenance
- ▶ Technical support and training
- ▶ Long-term customer care



At **Rexon Hydraulics**, we go beyond machinery — we deliver **smart, sustainable solutions** that drive performance and support a cleaner environment.

Automatic Horizontal Paper Baler Machine

Efficient | Reliable | Fully Automatic

The **Automatic Horizontal Paper Baler** by **Rexon Hydraulics Pvt. Ltd.** is a high-performance baling system designed for **continuous, large-scale paper and cardboard waste compaction**. Engineered with robust hydraulics and smart automation, this machine is ideal for industries that generate high volumes of recyclable waste — such as printing presses, warehouses, packaging units, and recycling plants.

Briefing of the machine

- ▶ **Fully Automatic Operation** – Reduces manual handling and increases productivity
- ▶ **Heavy-Duty Hydraulic System** – Ensures consistent pressure and long-term durability
- ▶ **High Output Capacity** – Capable of producing dense, uniform bales at high speed
- ▶ **PLC Control Panel** – Touch-based interface for easy and safe operation
- ▶ **Adjustable Bale Size** – Customizable to meet your transport and storage needs
- ▶ **Safety Interlocks** – Built-in safety mechanisms for operator protection

Applications

- ▶ Waste paper recycling
- ▶ Corrugated box compaction
- ▶ Newspaper & magazine baling
- ▶ Printing and packaging industry
- ▶ Cardboard & carton waste management

Benefits

- ▶ Saves labour and time
- ▶ Optimizes storage space
- ▶ Reduces transport costs
- ▶ Improves workplace cleanliness
- ▶ Eco-friendly waste management solution

Built to Perform. Engineered to Last.

The Automatic Horizontal Paper Baler Machine by **Rexon Hydraulics Pvt. Ltd.** is built with precision-engineered components that work seamlessly to deliver maximum efficiency, durability, and automation.

1. Hydraulic Power Pack Unit

The heart of the machine — designed in-house to ensure stable oil temperature and extended machine life.

- ▶ High-flow vane-type hydraulic pumps reduce noise and improve flow rate.
- ▶ Dual induction motors of different horsepower boost energy efficiency and performance.
- ▶ A custom-designed hydraulic manifold block ensures high ram speed with minimal oil heating, preserving hydraulic seal integrity and fluid viscosity.

2. Hydraulic Cylinder

Precision-controlled cylinders manage ram movement and apply the required pressure.

- ▶ Built with high-grade hydraulic tubes and chrome-finished piston rods.
- ▶ Fitted with premium German sealing kits capable of withstanding high-pressure applications.

3. Heavy-Duty Structure

Rugged construction using top-quality materials ensures long-term stability and strength.

- ▶ Base frame fabricated from high-carbon steel to absorb shearing forces.
- ▶ Structural components sourced from SAIL and Essar Steel.
- ▶ Foundation includes Jindal Steel heavy-duty beams to handle full load capacity.
- ▶ Pressing chamber constructed from Indian railway track sections for lifelong performance.

4. Shear Blades

Engineered for precision cutting and extended blade life.

- ▶ Manufactured from hardened steels like **EN31** and **WPS**.
- ▶ **Heat-treated** for enhanced **toughness, durability**, and **clean bale finishes**

5. Cutting, Twisting & Pushing Unit

A fully integrated, automated system for seamless bale tying.

- ▶ **Pusher unit** feeds wire through ram slots.
- ▶ **Cutter unit** slices wire at precise points.
- ▶ **Twister unit** securely knots wire.
- ▶ All units are **synchronized** for flawless automation.

6. Clamping Unit

Four powerful clamping cylinders ensure tightly compressed bales.

- ▶ Two cylinders on each side apply **uniform pressure**.
- ▶ Ensures **stable material positioning** and **high-density bale output**.

7. Conveyor & Hopper System

Automated loading with real-time monitoring.

- ▶ **Heavy-duty metal conveyor** delivers material into the hopper.
- ▶ **Inspection windows** for visual checks.
- ▶ Elevated hopper with **access platform** and **staircase**.
- ▶ **Sensor-based control** for automated start/stop functions.

8. Smart Control System

Advanced PLC control ensures intelligent automation and user safety.

- ▶ **Touchscreen interface** for easy operation.
- ▶ Sensors monitor and control RAM, cutter, pusher, and conveyor units.
- ▶ **Electronically controlled valves** offer precise actuation and enhanced safety.



QUICK
MAINTENANCE



LONG
SERVICE LIFE



LOW ENERGY
CONSUMPTION



EASY
MAINTENANCE



HIGH CABLE
RESISTANCE



OPERATOR
SAFETY



LOWER OPERATING
COSTS



HEAVY
CONSTRUCTION



OUTPUT
OPTIMIZATION



REDUCTION
DOWNTIME



HIGH
PRODUCTION



INTERNET
CONNECTIVITY



HIGH
DENSITY
BALES



IMPERMEABLE



EASILY
TRANSPORTABLE



OPTIMUM
STORAGE



SEA
TRANSPORT



ROAD
TRANSPORT

MATERIAL PROCESSED

Processed Materials

Material Title

Description

PET Bottles

- ▶ Crushed or loose plastic bottles commonly used for beverages. Efficiently compacted for recycling or disposal.

Cardboard (OCC)

- ▶ Corrugated cartons and packaging boxes. Ideal for high-volume packaging waste.

White Paper

- ▶ Office documents, copier paper, and shredded white paper. Maintains bale cleanliness and quality.

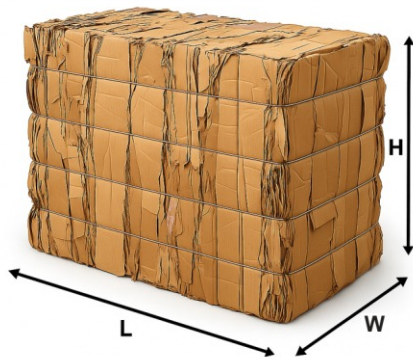
Paper Tube

- ▶ Industrial paper tubes from textile, plastic film, or label rolls. Dense and durable for baling.

Core Tube

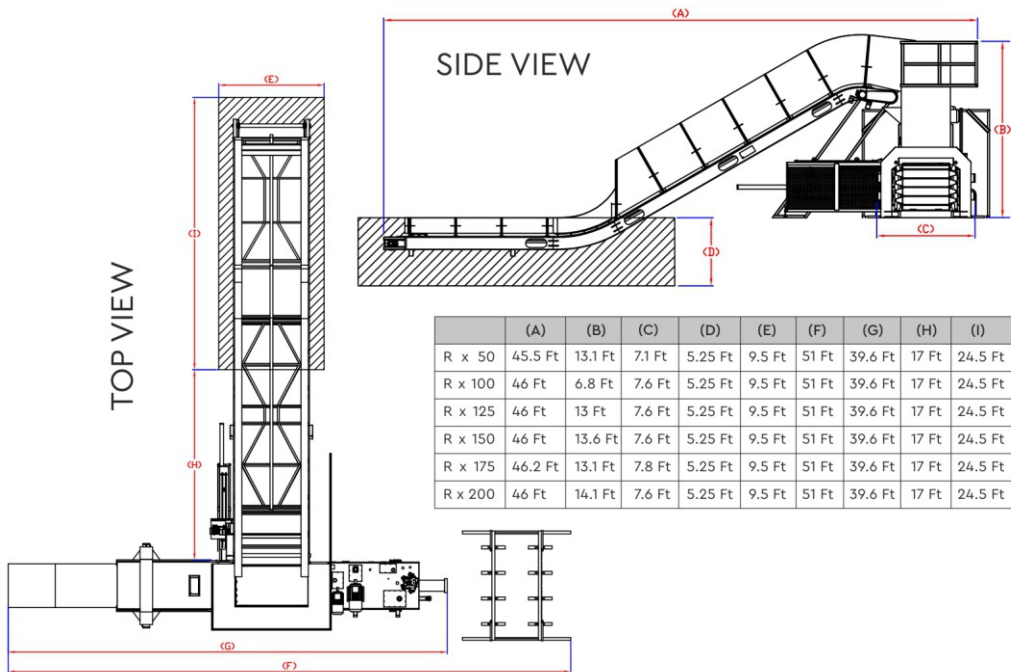
- ▶ Heavier cardboard cores from paper rolls and foil spools. Easily compacted with horizontal pressure.



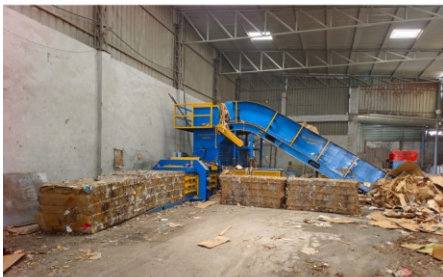


Sr No.	ITEMS	R x 50 (950X950)	R x 100 (1100X860)	R x 125 (1100X925)	R x 175 (1175X925)	R x 150 (1100X1100)	R x 200 (1100X1250)
1	Bale Size (Inches)	37.5 x 37.5	43.3 x 33.8	43.3 x 36.4	46.3 x 36.4	43.3 x 43.3	43.3 x 49.2
2	Bale Weight (Kg)	700-800	800-1050	900-1100	1000-1300	1100-1300	1250-1450
3	Total Power (Hp)	72	72	72	82	82	97
4	Production	5-7 TPH	7-10 TPH	8-10 TPH	9-12 TPH	10-12 TPH	12-15 TPH
5	Pressing Force (Tons)	85	85	100	125	100	125
6	Number of Wires	4	4	4	4	5	5
7	Oil Reserve (Liters)	2000	2000	2000	2000	2000	2000
8	Conveyor Power (Hp)	10	10	10	10	10	10
9	Conveyor Width (Ft)	7	7	7	7	7	7
10	Operating System	Plc Based	Plc Based	Plc Based	Plc Based	Plc Based	Plc Based
11	Cooling Type	Cooling Tower	Cooling Tower	Cooling Tower	Cooling Tower	Cooling Tower	Cooling Tower
12	Cooling Power (Hp)	2	2	2	2	2	2

DIMENSIONAL DATA



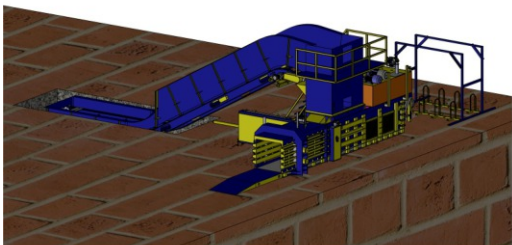
AUTO TYING BALER MACHINE



WASTE PAPER & PET BOTTLE SEMI AUTOMATIC MACHINE



HORIZONTAL PAPER BALER



PAPER FLUFFER

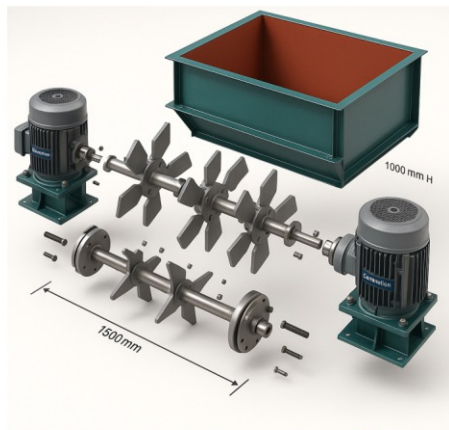
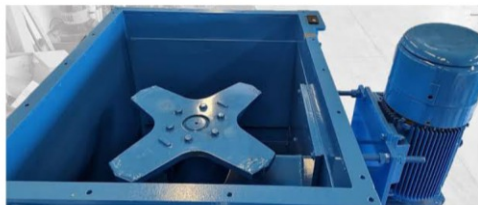
The Paper Fluffer Unit is a vital pre-processing component integrated into an Automatic Horizontal Paper Baler, designed to break, loosen, and aerate compressed or clumped paper material before compression. This ensures uniform density, efficient baling, and improved material flow.

Technical Specifications

- ▶ **Motor Power** : 2 x 15 HP (11 kW each)
- ▶ **Motor Type** : 3-phase induction motor, TEFC (Totally Enclosed Fan Cooled)
- ▶ **Gear Drive** : Heavy-duty helical gearbox for torque multiplication
- ▶ **Rotor Type** : Twin counter-rotating spiked rotors with hardened steel fingers
- ▶ **Chamber Design** : Dual chamber feed with cross-flow fluffer chamber and guide plates
- ▶ **Control System** : PLC integrated with baler sequence for timed operation and overload protection
- ▶ **Safety** : Enclosed guard system with safety interlocks and overload trip

Working Principle :

- ▶ Paper enters the fluffing chamber via conveyor or manual feed.
- ▶ Twin rotors rotate in opposite directions at synchronized speed.
- ▶ The spiked shafts tear, fluff, and de-clump the material.
- ▶ Fluffed paper is pushed into the main compression chamber via feed ram or auger.
- ▶ Ensures air pockets are eliminated, improving bale uniformity and tie integrity.





Rexon Hydraulics Pvt. Ltd.



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