



Best Enterprises

Stronger Build. Higher Output. Better Profit.

24 Row High-Productivity Matchbox Filling Machine

COUNT-FILL-24R



Up to 70 Bundles Per Hour



High Accuracy Vision Counting System



Only 6 Operators Required



Proven Industrial Reliability



Engineered for High-Volume Matchbox Production


COUNT-FILL-24R


24 Row High-Productivity Matchbox Filling Machine

Designed for High-Volume Matchbox Manufacturing

Delivering up to 70 bundles per hour with just 6 operators, the COUNT-FILL-24R combines the productivity of an online machine with the simplicity and reliability of an offline design.

Manufacturers can achieve higher output, lower operating costs, and dependable performance without the complexity and maintenance demands of conventional online systems.

 70 Bundles Per Hour

 6 Operators

 Vision Counting

 Proven Reliability





ENGINEERED FOR HIGHER PRODUCTIVITY

Dual 24-Row Stick Section

Uses two independent 24-row sections instead of a single 34-row setup, improving reliability and ease of maintenance.

500 mm Narrower Stick Handling Units

Head arranger vibrators, shafts, counting unit rollers, and stick-feeding conveyor rollers are all 500 mm shorter, reducing mechanical stress.

Longer Component Life

Shorter shafts and rollers experience less deflection and vibration, resulting in lower wear and fewer breakdowns.

Stronger Construction

Frames, shaft diameters, and bearings are retained from proven 17-row machines, providing higher strength margins and reduced maintenance requirements.



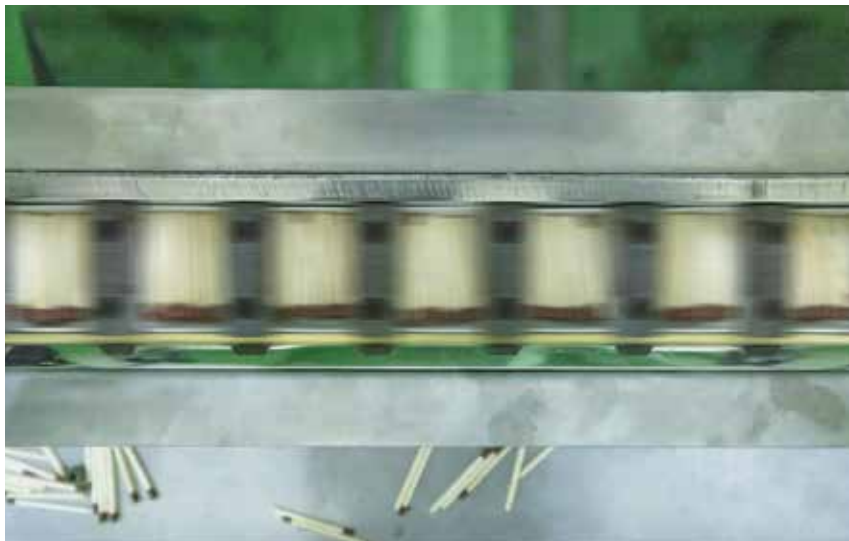
SMART ENGINEERING IMPROVEMENTS

Clip-Assisted Box Closing

Guide clips assist accurate inner box insertion, ensuring smoother outer box closing and improved operational consistency.

Benefits:

- Handles imperfect box variations with ease
- Improves closing consistency
- Reduces product damage
- Minimizes production waste



Smooth Matchstick Conveying System

The machine maintains the same band speed as proven 17-row machines.

Benefits:

- Jerk-Free Movement
- No Spillage of Matchsticks
- Improved Band Return Guide Assembly
- Lower Maintenance Requirements



UPGRADED INSPECTION TABLE

2 × 12 Row Inspection Table

Designed for easy operator access while maintaining the same tray weight as standard 17 row machines.

Heavy-Duty Pusher Rods

10 mm round rods are upgraded to 30 × 8 mm rectangular plates, providing higher strength, better box closing, and preventing rod bending.

Stronger Side Chains

5/8 inch 10B side chains are upgraded to heavy-duty 3/4 inch 12B side chains for enhanced durability, higher load capacity, and longer service life.

Key Benefits

- Easier Operator Access
- Stronger Pusher Mechanism
- Improved Box Closing Accuracy
- Longer Service Life



MACHINE PERFORMANCE & TECHNICAL SPECIFICATIONS



Why COUNT-FILL-24R?

- Up to 70 Bundles per Hour
- 36% Higher Production Capacity
- Only 6 Operators Required
- High-Accuracy Vision Counting
- Proven Industrial Reliability

Built for Continuous High-Volume Manufacturing

Performance Comparison

	17 Row	24 Row
Maximum machine speed (per minute)	32	30
Practical machine speed (per minute)	28	27
Boxes per minute	476	648
Bundles per hour	48	65
Production Increase	-	36%
Manpower Required	6	6
Electrical Power (HP)	14 HP	23 HP
Current Consumption (Amps)	10 A	18 A
Machine Size (L x W x H)	35 x 27 x 13	45 x 27 x 13

Technical Specifications

Width x Length x Height	45 x 27 x 13 ft
Electrical Power	23 HP (3 Phase, 415 V)
Minimum Air Pressure	6 Bar (87 psi)
Compressor Power	7.5 HP / 5.5 kW



COUNT-FILL-24R

Engineered For High-Volume Matchbox Manufacturing



WHY COUNTING-BASED FILLING?

Precision Through Vision Technology

Our advanced counting system utilizes high-quality imaging hardware and real-time image processing algorithms to achieve counting speeds of up to 325 matchsticks per second while maintaining exceptional accuracy.

Key Advantages

High Counting Accuracy

Achieves an average counting accuracy of up to 98%+ per carton, helping manufacturers maintain product consistency and quality standards.

Eliminate Under-Count Issues

Accurate counting minimizes under-filled boxes, helping brands meet stringent quality requirements and reduce customer complaints.

Reduced Product Waste

Prevent unnecessary overfilling and improve material utilization through precise matchstick counting.





MEASURABLE SAVINGS. GREATER PROFITS.

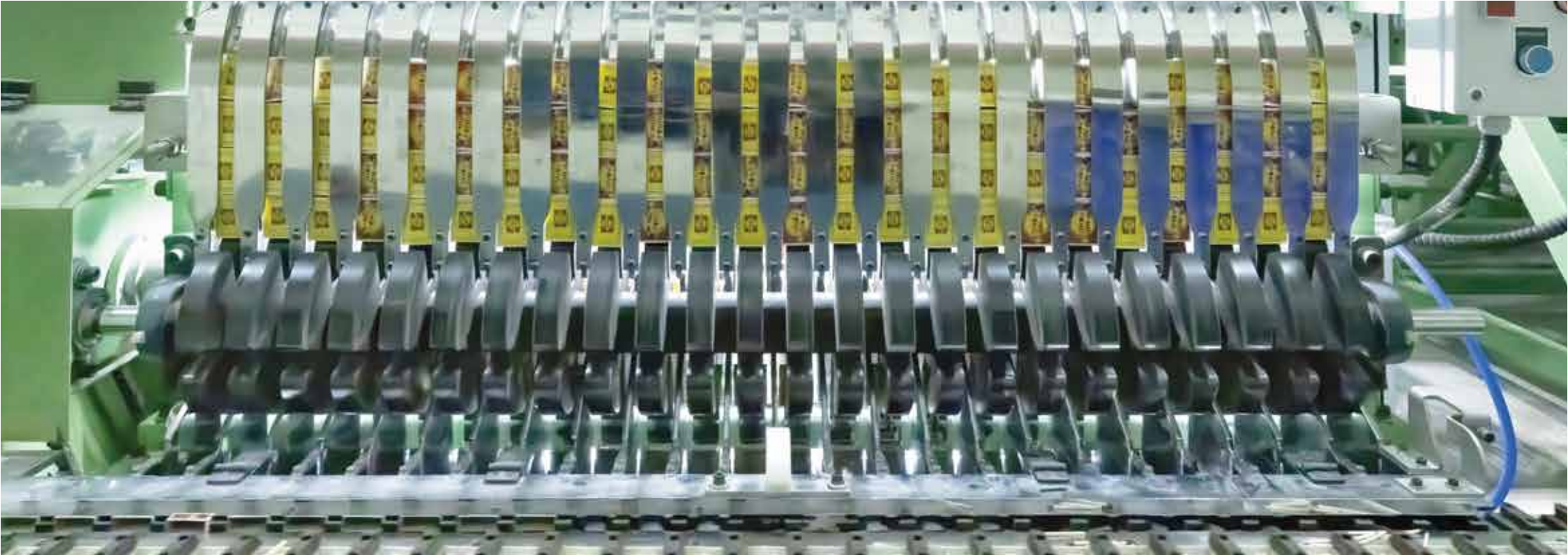
Sticks Saved Per Box	1 Stick	2 Sticks	3 Sticks	4 Sticks
Sticks saved per bundle	600	1,200	1,800	2,400
Cost saved per bundle	₹4	₹8	₹12	₹16
Cost saved per day	₹3,000	₹6,000	₹9,000	₹12,000

Increase Profitability With Every Bundle

Even a small reduction in excess matchsticks per box can generate significant savings over time. By improving counting accuracy, manufacturers can reduce material wastage, improve consistency, and increase overall profitability.

- Save Up to ₹16 Per Bundle
- Reduced Product Waste
- Improved Counting Accuracy
- Increased Manufacturing Efficiency





SMART OUTER BOX FEEDING SYSTEM

Simplicity Through Intelligent Design

The COUNT-FILL-24R features a PC-based outer box feeding system developed by Best Enterprises. Designed for ease of use and operational flexibility, the system eliminates the complexity associated with conventional smart-camera-based solutions.

Manufacturers can manage brand changes quickly and efficiently without requiring specialized programming knowledge.

Why PC-Based Technology?

Faster Brand Setup

New brand designs can be added within minutes, reducing downtime and increasing production flexibility.

User-Friendly Interface

The intuitive software interface allows operators with basic computer knowledge to manage the system with confidence.

Independent Production Control

Production teams can independently manage product changes without relying on external programmers or software specialists.



Easy Brand Management



Reduced Setup Time



User-Friendly Operation



Increased Production Flexibility

BUILT FOR LONG-TERM MANUFACTURING EFFICIENCY

The proprietary software platform developed by Best Enterprises is designed to simplify machine operation while supporting a growing range of product variations and production requirements.

Add New Brands in Just 2 Minutes

Quick product changeovers allow manufacturers to respond faster to market requirements.

Brand Privacy & Security

Brand artwork and production data remain under the direct control of the manufacturer without requiring third-party software intervention.

No Storage Limits

Unlike conventional systems with limited brand memory, the software can store and manage thousands of product variations.

Scalable for Future Growth

Designed to support expanding production requirements and new product introductions.

Key Advantages

- Add New Brands in Minutes
- Maintain Brand Confidentiality
- Unlimited Brand Storage
- Future-Ready Platform





ABOUT BEST ENTERPRISES

Engineering Productivity Through Experience

For more than two decades, Best Enterprises has been helping manufacturers improve productivity through practical engineering, automation, and vision-based technology solutions.

With over 24 years of experience in industrial automation and more than 10 years of specialization in advanced vision systems, we have built a reputation for delivering reliable machinery that performs consistently in real production environments.

Our focus has always been simple — design machines that are easy to operate, dependable to maintain, and capable of delivering measurable improvements in productivity and profitability.

From machine design and manufacturing to installation, training, and after-sales support, every solution is backed by hands-on industry experience and a commitment to long-term customer success.

WHY MANUFACTURERS CHOOSE BEST ENTERPRISES

- 24+ Years of Industrial Automation Experience
- 10+ Years of Vision System Expertise
- Proven Performance in Live Manufacturing Environments
- Dedicated Technical Support Team
- Fast Service & Spare Parts Availability
- Trusted by Matchbox Manufacturers Across India

Our relationship with customers extends beyond machine installation. Through responsive support, technical expertise, and continuous product improvement, we help manufacturers maximize the value of their investment year after year.

BUILT USING GLOBALLY TRUSTED COMPONENTS

Quality in Every Detail

The performance and reliability of any machine depend on the quality of the components used in its construction.

At Best Enterprises, we select proven industrial components from globally recognized manufacturers to ensure consistent performance, longer service life, and dependable operation in demanding production environments.

Every component is carefully chosen to deliver reliability, precision, and long-term value for our customers.



MACHINE GALLERY



A closer look at the engineering precision, construction quality, and industrial craftsmanship behind the COUNT-FILL-24R.

Designed for Continuous Industrial Operation

From drive systems and electrical controls to sensors, bearings, and vision technology, every element of the COUNT-FILL-24R is engineered to support continuous high-volume production.

Our commitment to quality ensures reduced downtime, simplified maintenance, and dependable long-term performance.

Key Advantages

- Premium Industrial Components
- Globally Trusted Brands
- Enhanced Reliability
- Reduced Maintenance Requirements
- Extended Service Life
- Consistent Production Performance

24+ Years of Industrial Automation Excellence.



BEST ENTERPRISES

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