



BEST ENTERPRISES

NEW LAUNCH

70 STICK FILLING



MATCHBOX FILLING MACHINE

World's First Matchstick Counting System

www.bestenterprises.in



2016 was the year when we launched the world's first matchstick counting system, that revolutionised the way matchsticks are filled. In match industries **maintaining the right stick count** is essential to pass quality checks, boost the brand value and to maximise savings.

OTHER filling systems (online-filling and volumetric-filling) still struggle to maintain the exact stick count, leading to undercount of sticks. When compensating for this error, **2 or 3 extra sticks are packed** into many matchboxes, which adds to a significant wastage of matchsticks.



WHY COUNTING BASED FILLING?

Our counting system uses high quality imaging setup and real-time image processing algorithm to maintain an astounding counting speed of 325 matchsticks/second. This leads to an industry leading **counting accuracy* of +/-2 sticks in almost every matchbox**, even at the production speed of 28 strokes/minute.

The advantages of our counting based filling system are listed below.



Accuracy*

+/- 2 sticks per matchbox, 98% average count per carton.



Savings

If you save one extra stick per matchbox, it leads to saving up to 20 Rupees per bundle.



No under-count problem*

With counting based filling your brands can pass stringent quality checks.



Suitable for slim boxes (20s and 25s)

You can accurately fill slim and compact boxes with stick counts of 20, 22, 25 etc



Exact stick count

You can exactly set 39 or 40 or 41 or whatever stick count you want with the click of a button, which is not possible in volumetric filling.



Higher tolerance to quality of sticks

Head size, roughness and weight of sticks can significantly affect the count in volumetric filling, but they are not much of a problem in counting based filling.

SAVINGS FROM COUNTING UNIT

The matchbox market is highly competitive, with very small profit margins. Saving even a single matchstick per box can lead to significant cost savings, giving your business a valuable advantage in this challenging market.

By saving 2 matchsticks per box, you can reduce costs by ₹8 per bundle, adding up to ₹6,000 in daily savings and ₹1.5 lakh every month.

Count Average of a 30's matchbox

VOLUMETRIC FILLING	COUNT FILLING
30 to 35	29 to 31

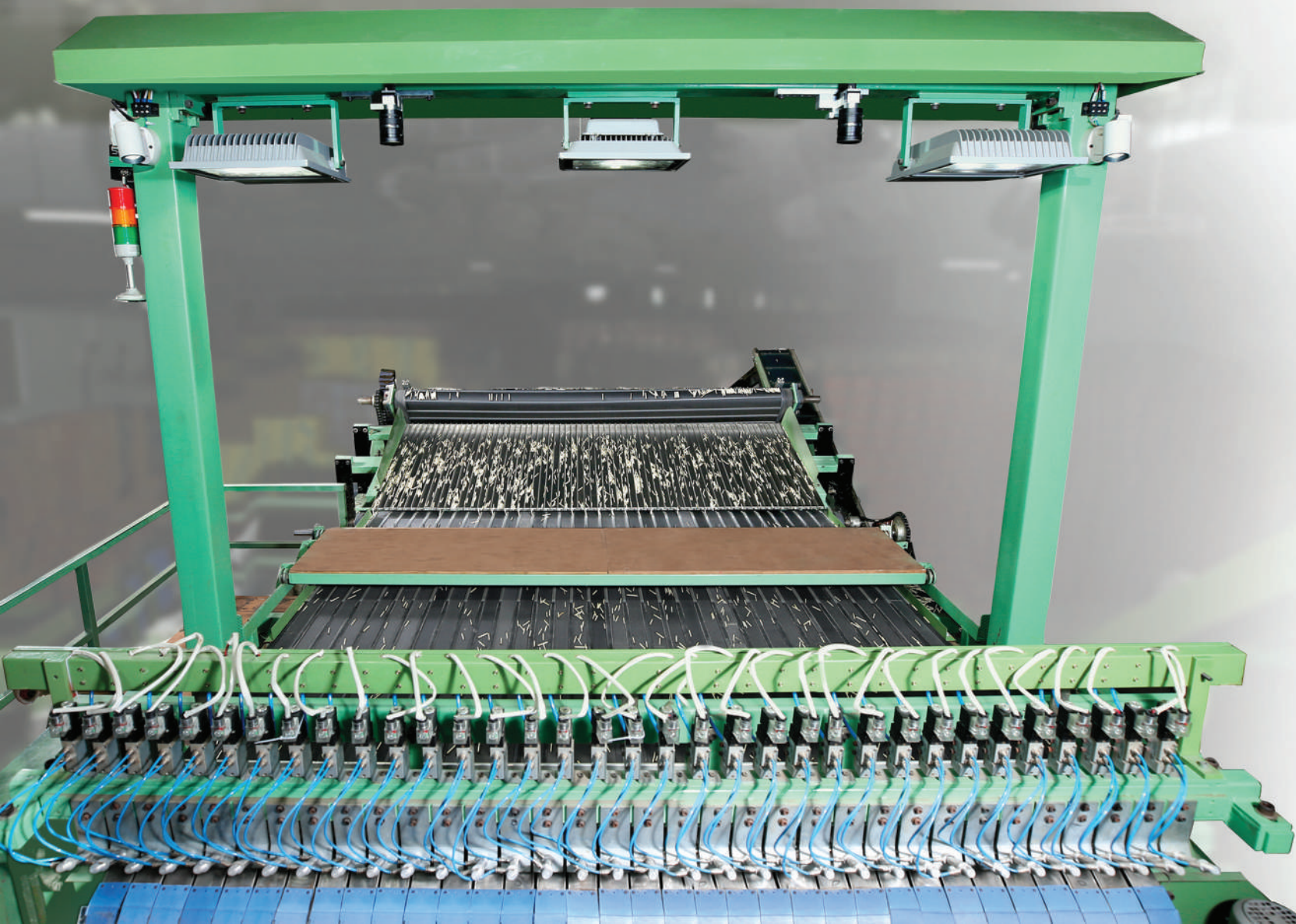
STICK COST*	
Stick Type	Matti Kerala
Length	40 mm
Sticks / Kg	12,000
Cost / Kg (in Rupees)	80
Cost / Stick (in Rupees)*	0.0067

*Stick cost is calculated in December 2024 from vendors at Kovilpatti, Tamilnadu.

Savings

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

As illustrated, savings of ₹4 to ₹16 per bundle not only enhance your profitability but also provide a decisive advantage in the competitive market.





OUTER BOX FEEDING UNIT

There are 2 types of outer feeding systems, **smart-camera based** and **PC based**. The smart-camera based systems are complex for a basic user. We at Best Enterprises developed the PC based system with our own custom software, which is very simple and user-friendly.

Below we have listed the highlights and advantages of our PC based outer feeding system.



Add new brands in 2 minutes

Smart-camera systems take **30 minutes to 1 hour** to add new brands, but it only takes **2 minutes** in our PC based system.



No need for an additional laptop

Smart-camera systems need a separate laptop and a skilled programmer for adding new brands.



Simple UI

Anyone with basic knowledge of a computer can use our software to add new brands.



Privacy of brand information

In smart-camera systems you must involve a third-party programmer when adding new brands. So you cannot maintain secrecy of your brand design.



No storage limits

Basic smart-camera systems can only save upto 32 brands. But our system can save thousands of brands.



Can handle complex brands

Our AI based algorithm can handle complex brands with almost-identical* front and back designs.

MACHINE SPECIFICATION

VARIANTS

Model	Stick Length	Sticks per Box	Production Per Hour
40S-40L	39 to 42 mm	50 sticks	48 bundles
50S-46L	46 to 48 mm	50 sticks	43 bundles
70S-40L	39 to 42 mm	70 sticks	40 bundles

**One bundle = 600 matchbox.*

PRODUCTION SPECIFICATION

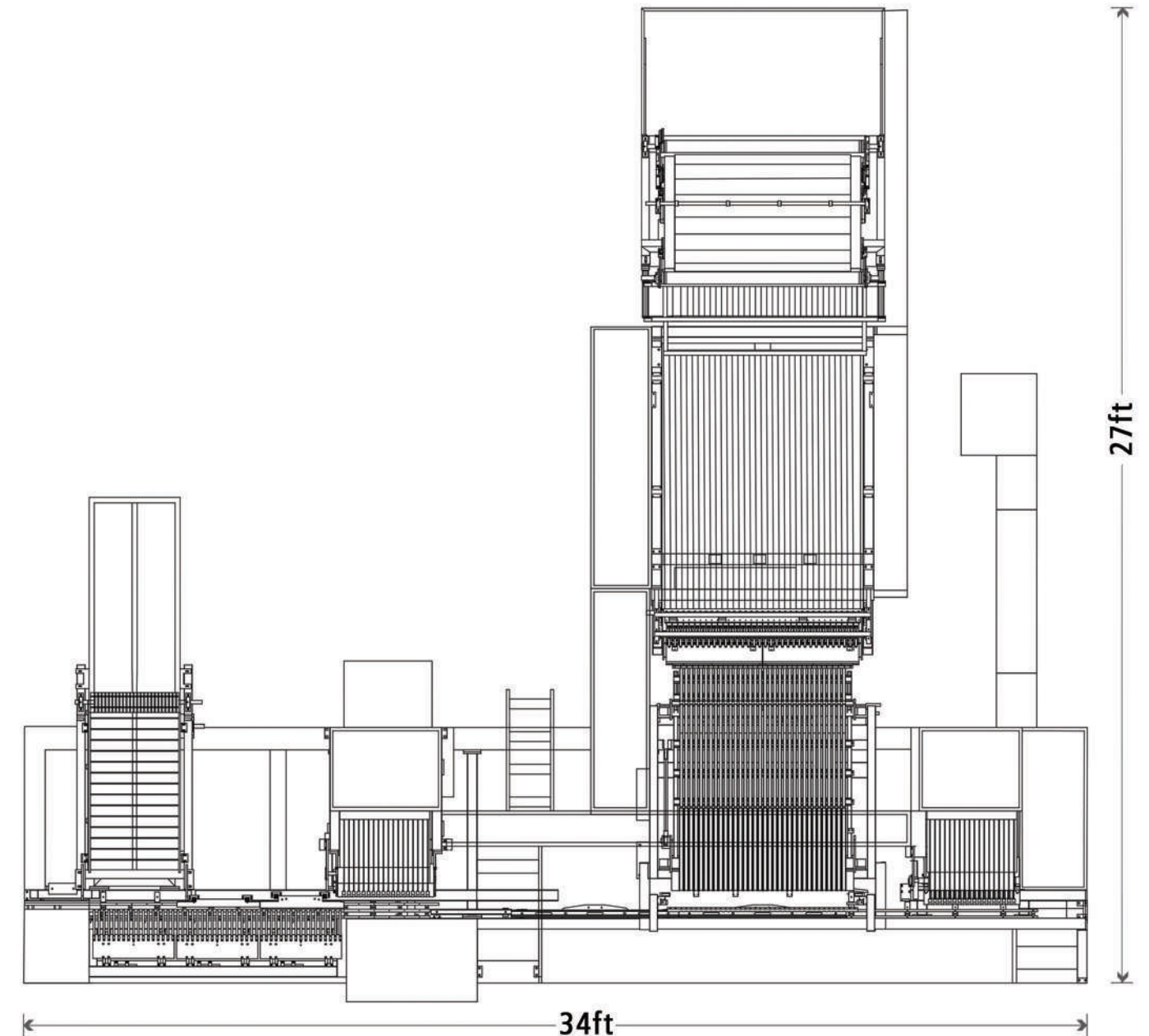
Machine Production Speed	25 - 30	Strokes Per Min.
Boxes Per Stroke	17	Boxes
Boxes Per Minute @ 25 Strokes	425	Boxes
Boxes Per Minute @ 30 Strokes	510	Boxes
Count Accuracy	± 2	Sticks Per Box

TECHNICAL SPECIFICATION

Width x Length x Height	34 x 27 x 13 ft
Electrical Power	14 HP (3Phase, 415 V)
Minimum Air Pressure	6 Bar / 87 psi
Compressor Power	7.5 HP / 5.5 kW

If you are looking for a matchstick filling machine with remarkable production capacity, solid build quality, class-leading counting accuracy and reliable after-sales service, then look no further than our **COUNT-FILL-1703** matchstick counting and filling machine.

MACHINE LAYOUT





TOP 10

**PACKAGING MACHINERY
MANUFACTURERS**

2024

ABOUT US

Experts in Automated Vision Systems

We are in the field of Industrial Automation for over 22 years and in the last 10 years we have specialised in vision systems.

Field Proven

Our vision systems are live in matchstick filling machines for over 8 years. Our clients have given repeat orders and positive feedback, citing the savings from accurate counting, superior design and dependable long-term support.

Support

At our Kovilpatti branch, we have a skilled workforce of over 10+ members, including engineers, technicians, and fabricators, who are capable of resolving most issues within a few hours. Additionally, we maintain stock of necessary spares on site to minimize downtime.

Premium Components

We use superior parts from leading manufacturers, some of them are listed below.



Enabling an Intelligent Planet



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scan to watch machine video