

SIMPLIFYING INSPECTION & SECURE TRACEABILITY



12+
YEARS OF
EXPERIENCE

1250+
INSTALLATIONS
GLOBALLY

9+
COUNTRIES
SERVED

200+
CLIENTS
GLOBALLY

22+
IN-LINE
PRODUCTS



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Our Brochure

SUN TEKNOVATION PVT. LTD.



HEAD OFFICE & WORKS

E-53 Electronic GIDC Estate, Sector - 26
Gandhinagar - 382028, Gujarat, India.

WORKS-2

WP 158, Sanand GIDC, Sanand,
Ahmedabad - 382 110, Gujarat, India.

Customer Care: +91 9723 823 823

Email: info@sunteknovation.com

Website: www.sunteknovation.com



SIMPLIFYING INSPECTION & SECURE TRACEABILITY

ABOUT US

OUR HISTORY OF INNOVATION

What began 12 years ago with a focused mission to revolutionize pharmaceutical manufacturing has grown into a technological powerhouse transforming the industry across the globe. Sun Teknovation stands at the intersection of precision engineering and cutting-edge innovation, pioneering advanced inspection systems and automation solutions that enhance quality, efficiency, and compliance for pharmaceutical manufacturers worldwide.

THE SUN TEKNOVATION KEY ADVANTAGES

- 🕒 **Simplicity in Complexity:** Our one-button teaching process makes advanced technology accessible
- 🔧 **Engineering Excellence:** Superior hardware backed by innovative design
- 🛡️ **Reliability Without Compromise:** We keep our promises, every time
- 🚀 **Agile Response:** Your challenges become our priorities
- 🔮 **Forward-Thinking Solutions:** Machine vision products that anticipate tomorrow's needs

OUR MISSION AND VALUES

- 🌍 **We Believe:**
Industrial automation and healthcare technology should enhance human potential, not replace it.
- 🏆 **We Strive:**
To continuously evolve our systems through wireless technology, sensor networks, and cyber-physical innovations.
- 💡 **We Value:**
Celebration of achievements, Open Honest Communication, Customer-first approaches, Continuous Learning, and breaking new grounds.

WHAT OUR PARTNERS SAY

Sun Teknovation doesn't just deliver technology, they deliver peace of mind," say our partners, who consistently highlight our:

- 📅 Transparent planning and timely execution
- 👤 User-friendly, adaptable inspection machines
- 🤝 Willingness to go beyond expectations for seamless integration
- 👥 Support team that treats your challenges as their own

OUR INVITATION TO COLLABORATE

As we continue our journey of illuminating possibilities through technology-driven innovations, we invite you to experience the Sun Teknovation difference, where every solution is crafted not just with expertise, but with the commitment to transform the landscape of industrial automation and healthcare technology globally.

OUR JOURNEY OF EXCELLENCE





eArjun

Pin Hole Detector

TECHNICAL SPECIFICATION

| | | | | | | | |
|---|--------|----------------|-------|-------|-------|-------|-------|
| System dimension (With standard mounting) | Length | 332mm | 332mm | 400mm | 420mm | 420mm | 490mm |
| | Width | 43mm | 43mm | 43mm | 43mm | 43mm | 43mm |
| | Height | 323mm | 323mm | 323mm | 323mm | 323mm | 323mm |
| Inspection Area (FOV) | | 200mm | 240mm | 260mm | 300mm | 320mm | 380mm |
| Type of packing material inspected | | Aluminium Foil | | | | | |

FEATURES

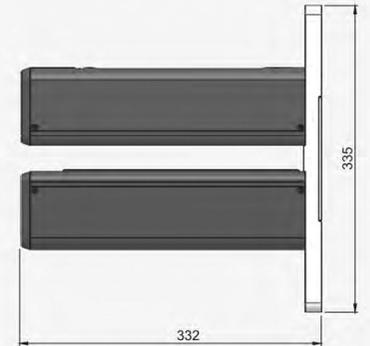
- Plug & Play System
- GMP compliant
- Detects Pinholes with diameter as low as 10 um
- Compatible with aluminum foil of different width
- Inbuilt LED indication for Pass/Fail

BENEFITS

- World's Thinnest PHD
- World's first Unit with Audit and Production Report Facility
- System can be integrated with software

APPLICATIONS

- Blister Pack Machine
Base Foil | Lead Foil
- Strip Machine Foil
- HFFS Machine
- VFFS Machine



All Dimensions are in mm



eDrashti™

Blister Inspection System

TYPES OF PRODUCTS



TYPES OF FOIL

- ☛ Aluminum Foil
- ☛ White PVC
- ☛ Color PVC
- ☛ Opaque PVC
- ☛ Aclar Film

MODEL

| | | | | |
|---------|-----|-----|-----|-----|
| Forward | 160 | 200 | 250 | 300 |
| Depth | 240 | 300 | 350 | 400 |

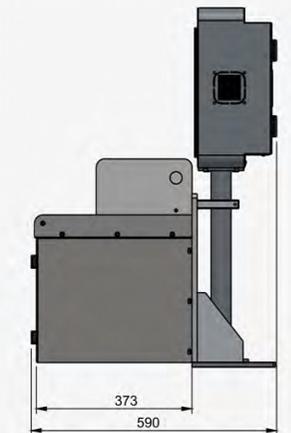
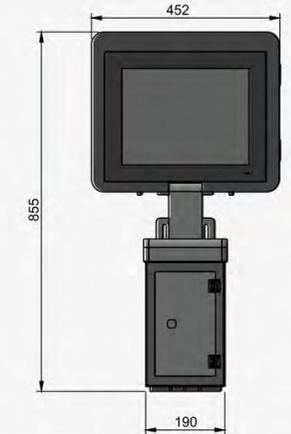
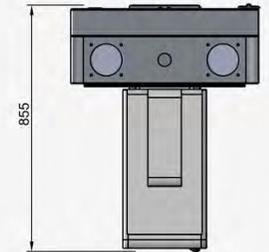
FEATURES

- ☛ AI based auto teaching
- ☛ No requirement to teach defective product
- ☛ Rejection analysis report
- ☛ Auto tolerance setting
- ☛ Flexible user management
- ☛ Retrofit Possible

BENEFITS

- ☛ Significantly low setting time & less human centric error
- ☛ No loss of production
- ☛ Easy setting as per client policy
- ☛ Large database to reduce rejection

**WORLD'S FIRST
ON-THE-GO
HARDWARE
CONFIGURATION**



All Dimensions are in mm



eTabSpec™

Tablet Inspection System

MODULAR DESIGN

**32000 TABLETS/ MIN
(8MM ROUND TABLET)**

BENEFITS

- ☑ Less manual measurement error
- ☑ Less time to set machine
- ☑ No stopping & no productivity loss
- ☑ Database to improve process
- ☑ De-duster for powder product

FEATURES

- ☑ Auto dimension measurement at product
- ☑ Easy reading process
- ☑ Special type rejection mechanism
- ☑ Foreign detection report with image

TYPES OF DEFECTIVE PRODUCTS



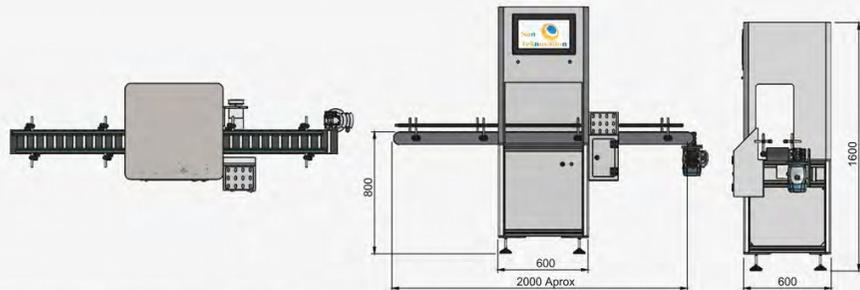


eSaksham

Sealing Inspection System

FEATURES

- High resolution thermal camera
- GMP standard machine
- Diverter mechanism for diverting bottles
- Auto rejection for better quality control
- Compact UI for easy operation



All Dimensions are in mm

SIMPLIFYING INSPECTION & SECURE TRACEABILITY



LOOSEN SEAL

OVERHEAT SEAL



DAMAGED SEAL



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eSanket

Code Inspection System

APPLICATIONS

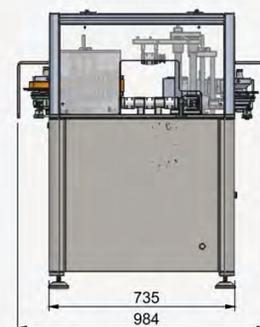
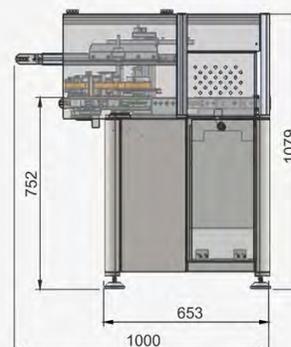
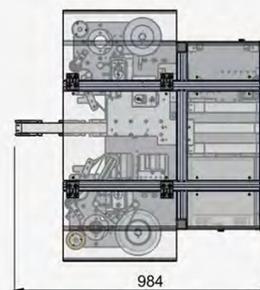
- Labeling Machine
- Conveyor
- Cartonator
- Lead Foil
- Stick Pack Machine

FEATURES

- Upto 600 inspection per Minute
- Multiple code detection
- Multiple camera connection
- Easy integration with machines
- Flexible user management

USAGE

| | |
|---------------------|--|
| OCR | |
| OCV | |
| 1D Barcode | |
| 2D Barcode | |
| Phramacode | |
| Qr Code | |
| Presence Absence | |



All Dimensions are in mm



Tamper Evident Machine

FEATURES

- Compact size
- Stand alone unit
- Double size labeling
- Easy integration with online machine & packing conveyor
- Packing conveyor
- Camera based checking for label alignment
- Single software if used with online m/c

eTrack Print & Inspection



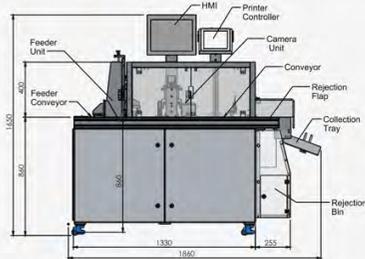
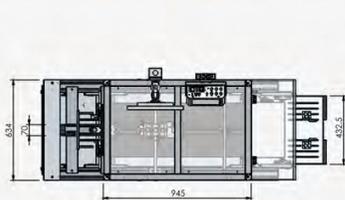
Offline
track & trace

Online
track & trace

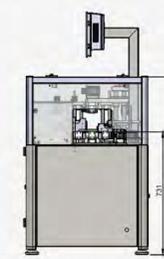
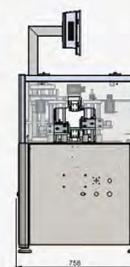


FEATURES

- Inbuilt Server
- Vacuum based conveyor mechanism
- Line level serialization & verification
- Modular & scalable software
- High speed operation upto 220 carton / min
- OCR OCV with data matrix inspection
- PLC based machine control
- 21 cfr part II compliant
- 2 Side print
- PLC to control the machine
- Line level Serialization
- OCR/ OCV human readable data verification for encoded codes
- 21 CFR Part II
- Air based rejection
- Complete validation document
- Rejection bin

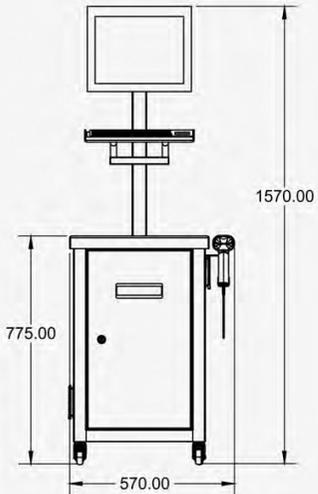
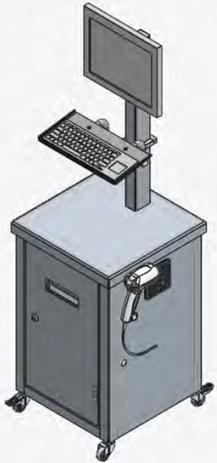
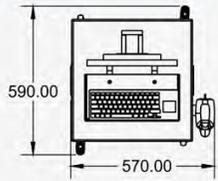


All Dimensions are in mm



- Provision of Inbuilt server*
- Compact size
- Self adjustment as per carton size
- Complete integration of printer
- Multiple sensors for precise workflow
- Line level serialization & verification

All Dimensions are in mm



All Dimensions are in mm



eTrack Aggregation System

Manual Aggregation

MANUAL AGGREGATION

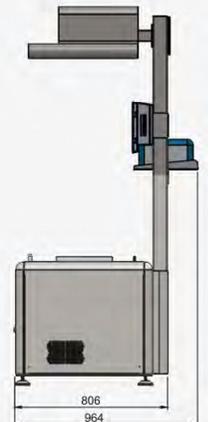
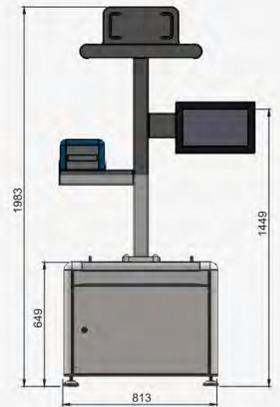
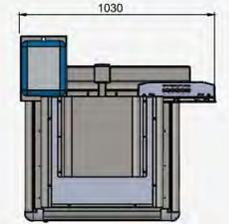
- Designed for bottle, carton, bundle, shipper
- Entry level system for slow production line
- Scanner based systems
- Floor mounted systems

Multi 2D Aggregation



BENEFITS

- Auto focus camera
- No mechanical movement
- First in class auto titled table
- Hand tracing for rejection removal
- On-the-go hardware configuration



All Dimensions are in mm

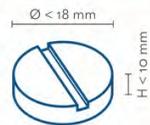


eSampoorna

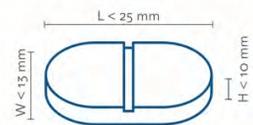
Standalone 360 Deg Inspection System

APPLICABILITY

Round Tablets



Oval and Oblong Tablets



Other special shapes and sizes of tablets are applicable upon request.

INDICATIVE INSPECTION SPEEDS*

Round Tablets

| Ø (Diameter) in mm | Tablets / Hour |
|--------------------|----------------|
| 13 - 18 | 80,000 |
| 10 - 12 | 1,60,000 |
| 8 - 9 | 2,60,000 |
| 7 - 5 | 3,20,000 |
| 5 | 4,00,000 |

Oval and Oblong Tablets

| L (Length) in mm | Tablets / Hour |
|------------------|----------------|
| > 18 | 60,000 |
| 14 - 18 | 80,000 |
| 11 - 13 | 1,60,000 |
| 8 - 10 | 1,80,000 |
| < 8 | 2,00,000 |

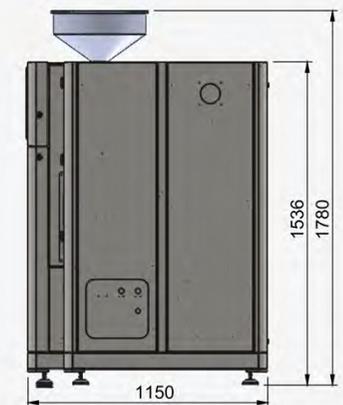
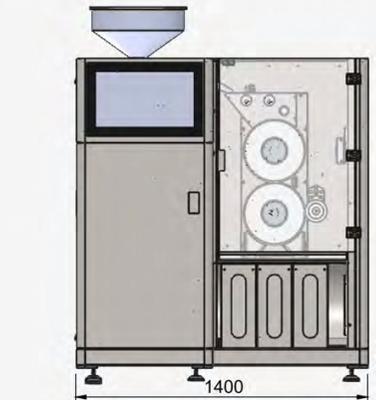
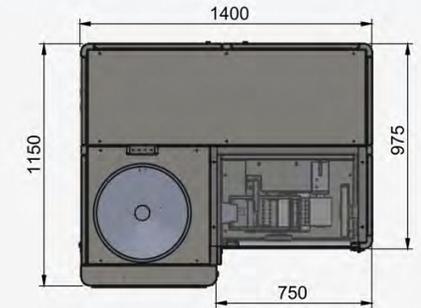
TYPICAL DEFECTS

The list below shows some of the typical defects on tablets. eSampoorna machine can detect and sort out a much wider list of different defects.

CAPSULE



ROUND TABLET

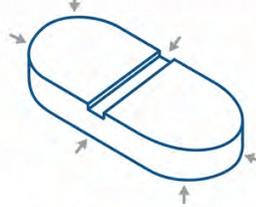


All Dimensions are in mm

RELIABLE INSPECTION BY CONTROLLED AND STABLE PRODUCT FLOW

100% SURFACE INSPECTION OF EACH PRODUCT

- Six inspection units, one for each side of product
- Colour, backlight and 3D images are acquired simultaneously for each side of product
- Totally 18 images per product are used in inspection



10 MINUTE MACHINE SET UP

- No defects needed for training
- Computer assisted setting procedure
- Intuitive sensitivity with easy setting
- Feedback on detection performance and yield

10 MINUTE MACHINE CLEANING AND CHANGEOVER

- Ergonomic tool-free design
- Easy cleaning
- No adjustment of optical system needed

RELIABLE MECHANICAL MANIPULATION

The product flow in eSampmoorna starts by feeding of products from the input container to a filling unit. The filling unit fills the products into pockets of an upper inspection cylinder, where the products are held in defined, stable and repeatable position by vacuum.

The rotating upper inspection cylinder transfers the products to the first inspection unit, where the top surface of the products is imaged. The products are then transferred to the lower inspection cylinder to the five additional inspection units where all remaining surfaces are imaged.

The acquired images are then analysed and each product is classified as good or defective. The sorting unit actively sorts individual products into bins for good and defective products and verifies if the sorting was performed correctly.

The inspection process is monitored and controlled by graphical user interface.



EFFICIENT PRODUCTION BY SIMPLE MACHINE OPERATION

AUTONOMY FOR NEW PRODUCTS

General inspection solution for standard products

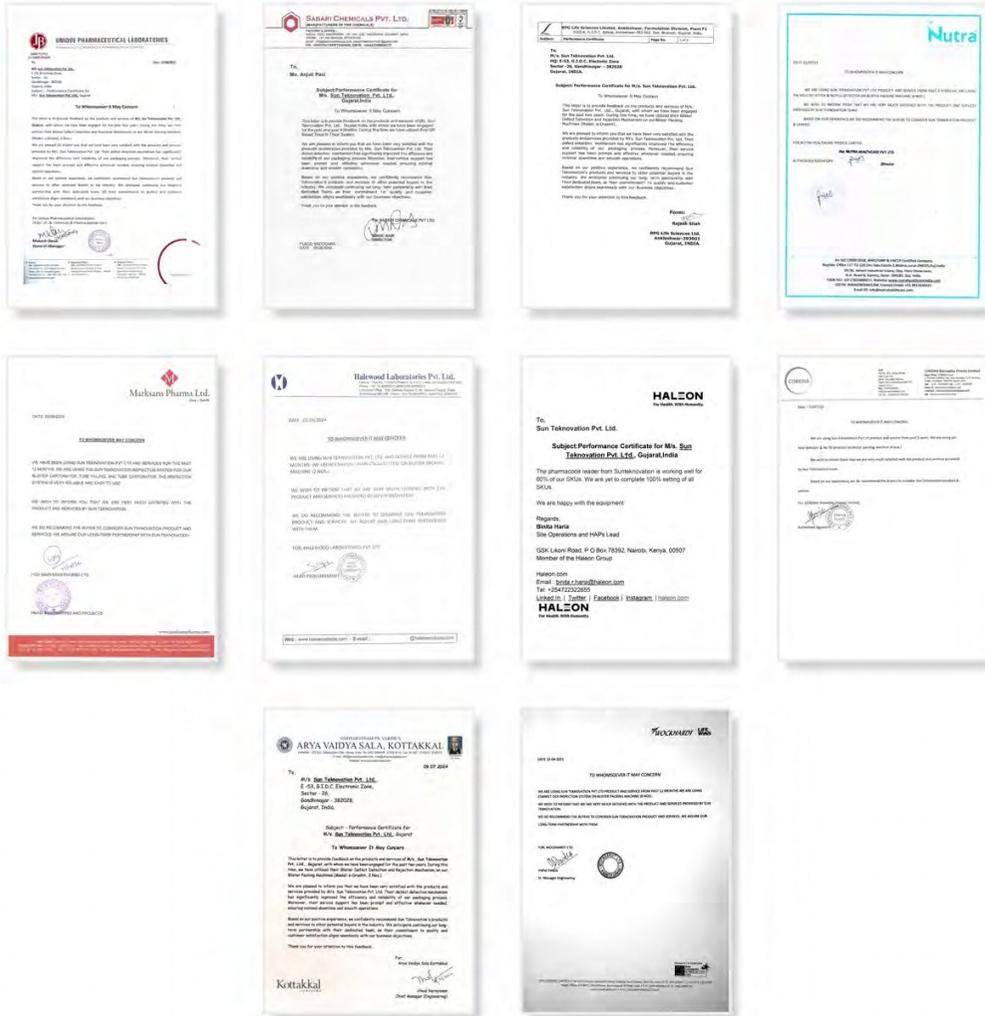
- Full user autonomy for introduction of new products
- Standard pre-manufactured mechanical and software tooling for round, oblong & oval tablets and for capsules & softgels
- Controlled procedure for creating new inspection solution
- Simple machine operation with:
 - Intuitive and easy to use operation
 - Transparent and well-defined process steps
 - Effective performance, powered by AI for defect identification

Dedicated inspection solution for specific requirements

- Interchangeable with general inspection solution
- Dedicated plug & play tooling for special types of product shapes and sizes, or specific requests on enhanced throughput and particular quality demands



CUSTOMER TESTIMONIALS



OUR CLIENTS



And Many More...



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