Sun Teknovation™





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

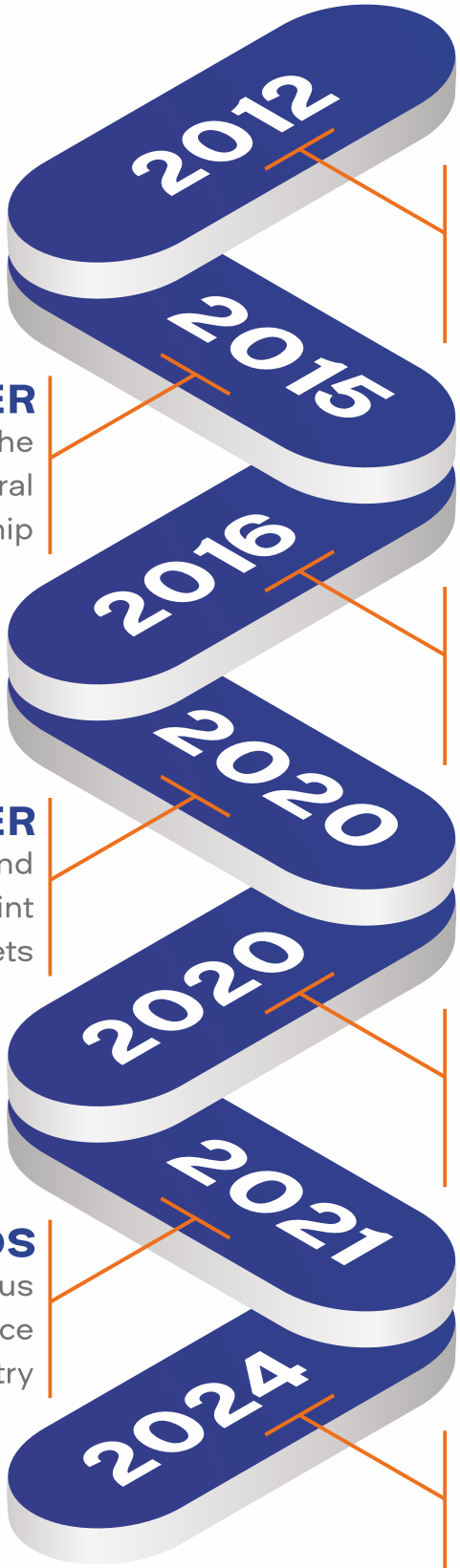
Sun Teknovation doesn't just deliver technology, they deliver peace of mind," say our partners, who consistently highlight our:

- 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



2012 — INCORPORATION
From vision to reality: Establishing our foundation in the business landscape

2015 — FIRST ORDER
Breaking ground in the market with our inaugural client partnership

2016 — FIRST EXHIBITION
Stepping into the spotlight with our debut public showcase

2020 — EXPORT ORDER
Crossing borders and expanding our footprint into international markets

2020 — AI ENABLED
Embracing innovation through artificial intelligence integration

2021 — MAJOR AWARDS
Earning prestigious recognition for excellence in our industry

2024 — NEW PRODUCT LAUNCH:
e-SAMPOORNA Unveiling our next-generation solution designed to transform the customer experience



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					

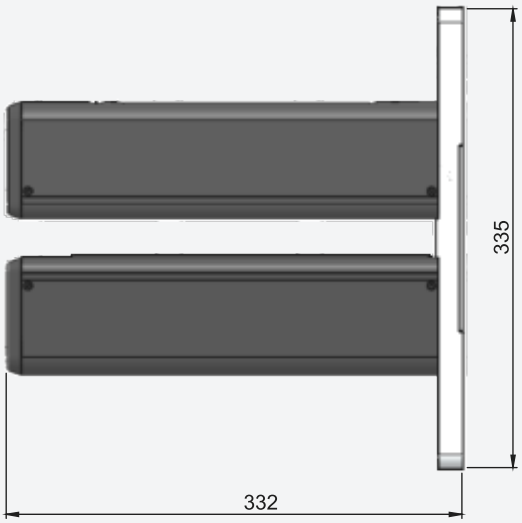
FEATURES

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



BENEFITS

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



APPLICATIONS

Blister Pack Machine
Base Foil | Lead Foil

Strip Pack Machine

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

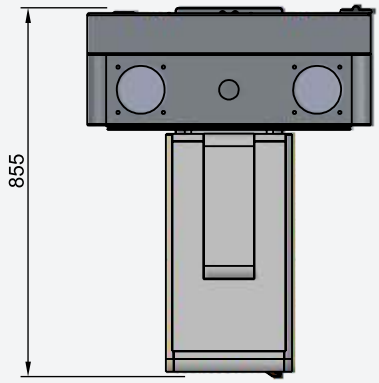
FEATURES

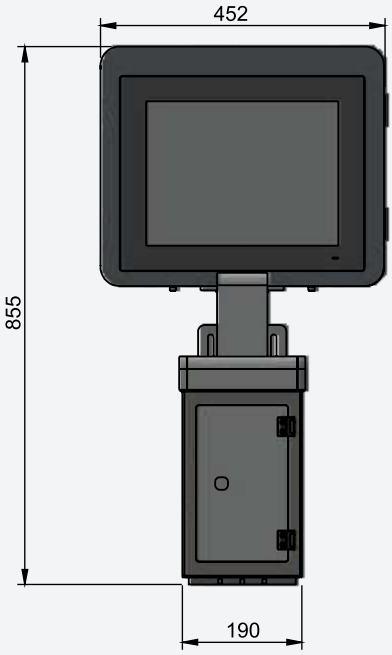
- AI based auto teaching
- Auto tolerance setting
- No requirement to teach defective product
- Flexible user management
- Rejection analysis report
- Retrofit Possible

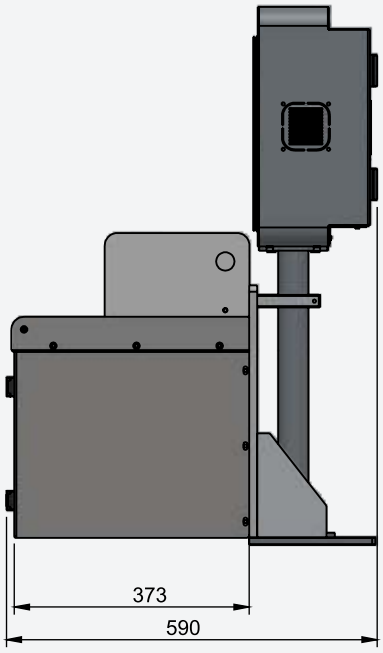
BENEFITS

- 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

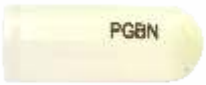
- Less manual measurement error
- Less time to set machine
- No stopping & no productivity loss
- Database to improve process
- De-duster for powder product

FEATURES

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

TYPES OF DEFECTIVE PRODUCTS



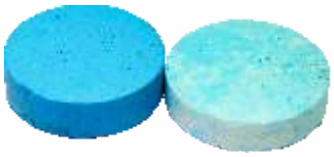
















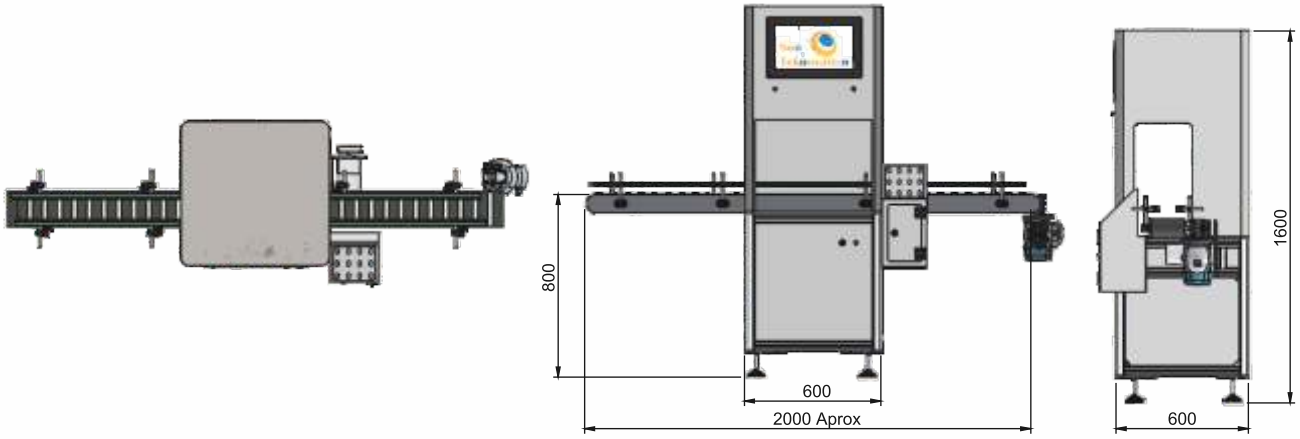


eSaksham™

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



LOOSEN SEAL



OVERHEAT SEAL



DAMAGED SEAL





eSanket™

Code Inspection System

APPLICATIONS

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

FEATURES

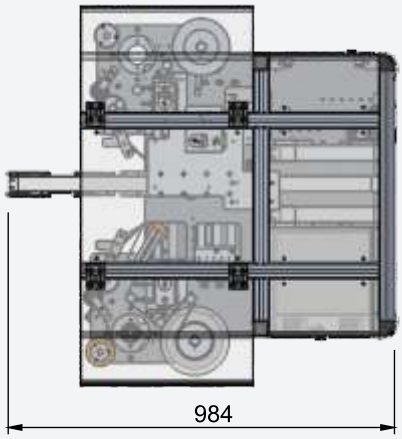
- Upto 600 inspection per Minute
- Multiple code detection
- Multiple camera connection
- Easy integration with machines
- Flexible user management

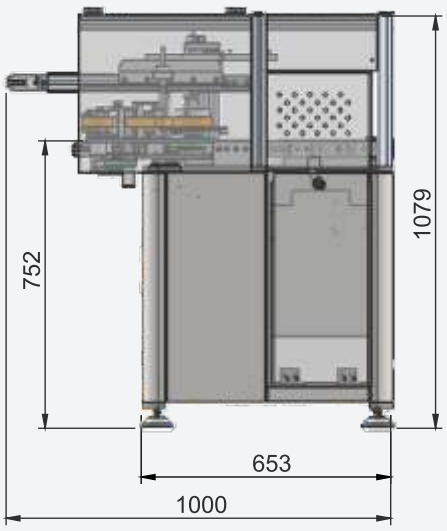
USAGE

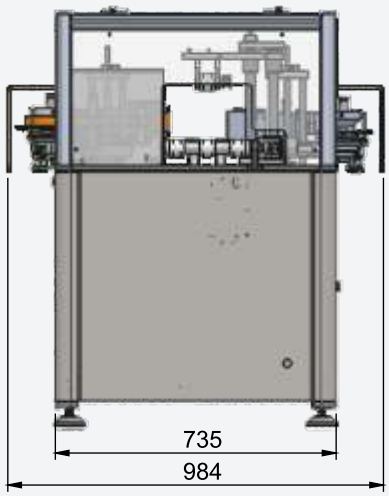
OCR	
OCV	
1D Barcode	
2D Barcode	
Phramacode	
Qr Code	
Presence Absence	

eRakshak™

Tamper Evident Machine







All Dimensions are in mm



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

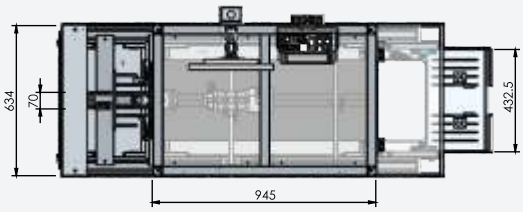
Offline track & trace

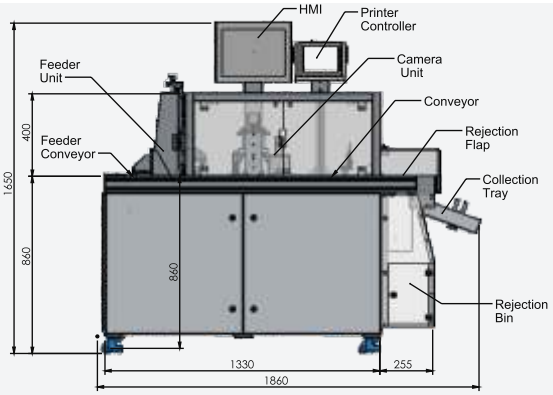


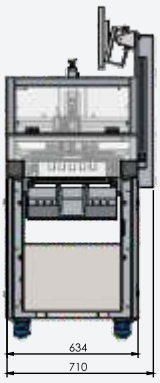


FEATURES

- 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 11 Compliant







All Dimensions are in mm

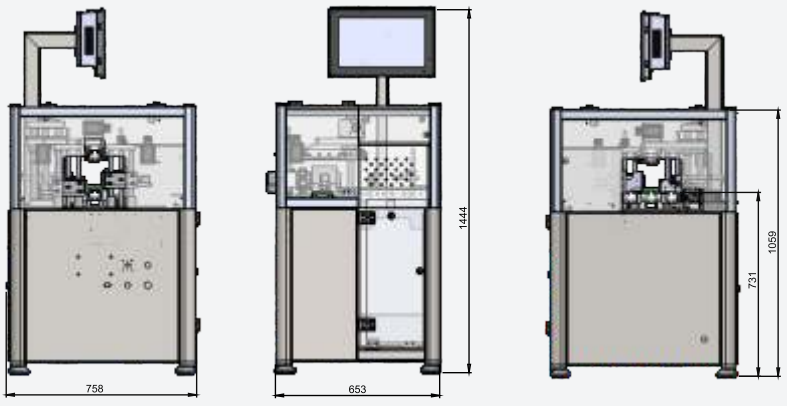
& Inspection™

Online
track & trace



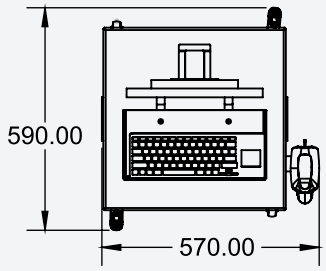


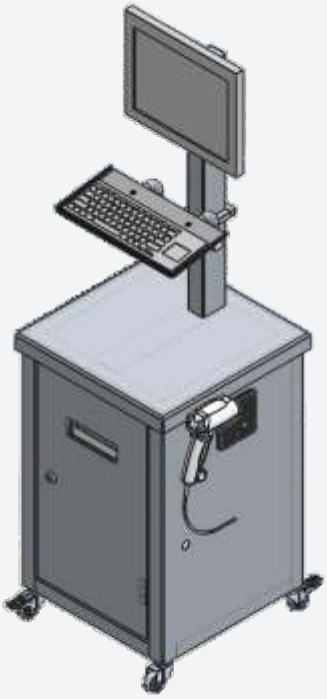
- 2 Side print
- OCR/ OCV human readable data verification for encoded codes
- PLC to control the machine
- 21 CFR Part 11
- Complete validation document
- Line level Serialization
- Air based rejection
- Rejection bin



- 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

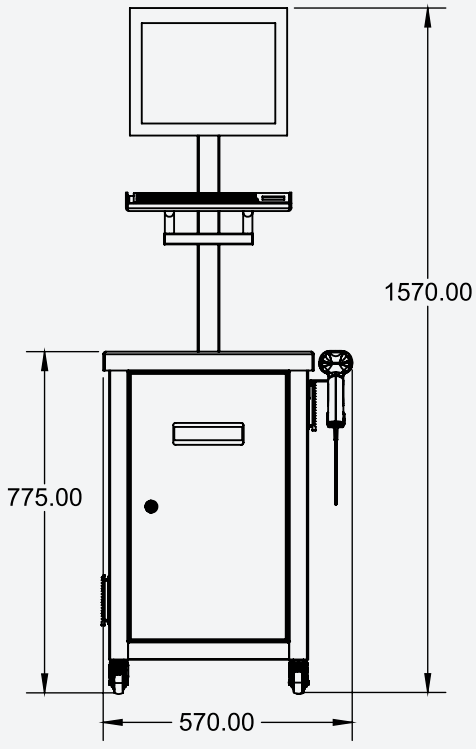






eTrack Aggregation

Manual Aggregation



All Dimensions are in mm

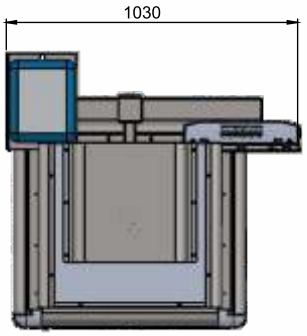
MANUAL AGGREGATION

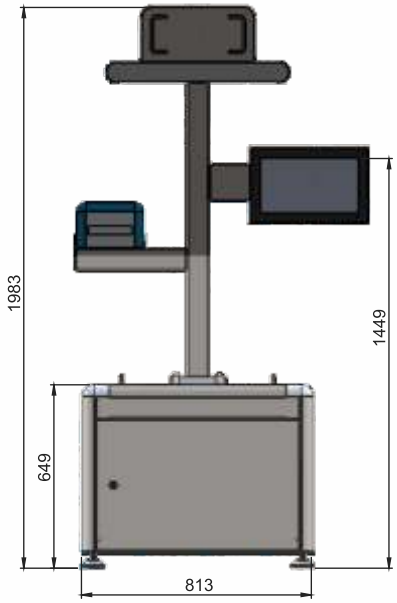
- Designed for bottle, carton, bundle , shipper
- Entry level system for slow production line
- Scanner based systems
- Floor mounted systems

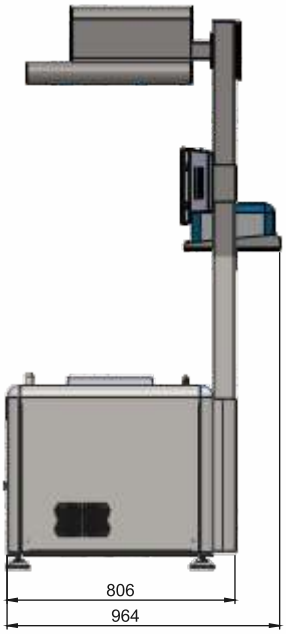
System™

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

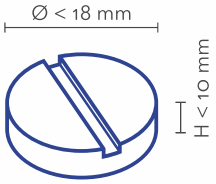


eSampoorna™

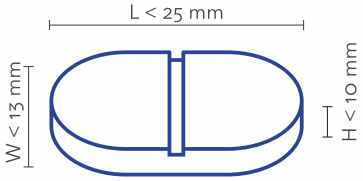
Standalone 360 Deg Inspection System

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

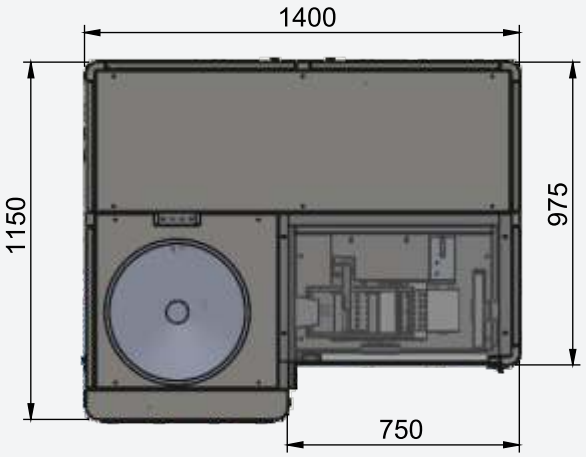
The list below shows some of the typical defects on tablets. eSampoorna machine can detect and sort out a much wider list of different defects.

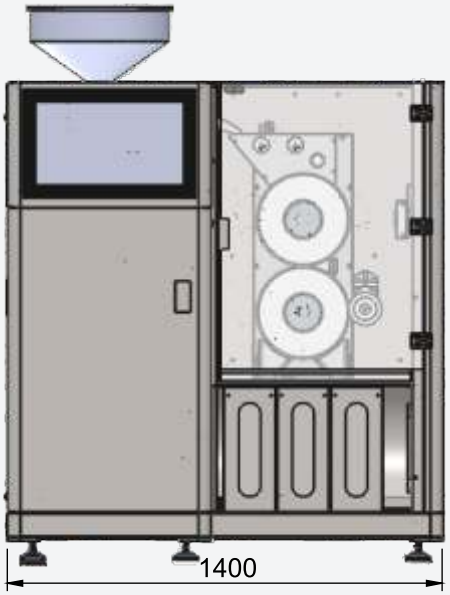
CAPSULE

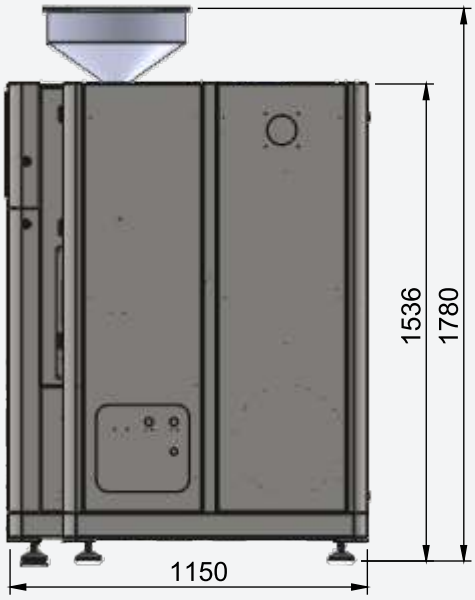


ROUND TABLET







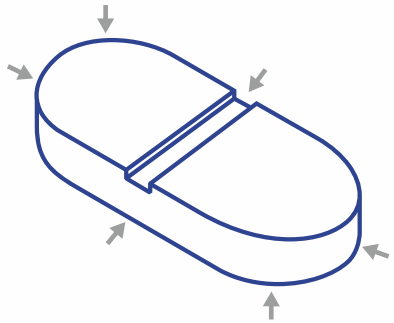


All Dimensions are in mm

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





RELIABLE MECHANICAL MANIPULATION

The product flow in eSapmpoorna 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.





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

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

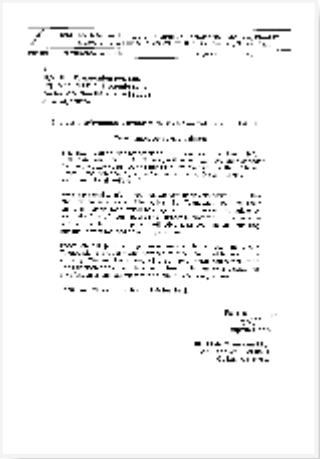
- Interchangeable with general inspection solution
- Dedicated plug & play tooling for special types of product shapes and sizes, or specific requests on enhanced throughput and particular quality demands

NEW PRODUCT INFORMATION → **MECHANICAL TOOLING SELECTION** → **COMPUTER ASSISTED SETTING** → **NEW INSPECTION SOLUTION**

CUSTOMER TESTIMONIALS



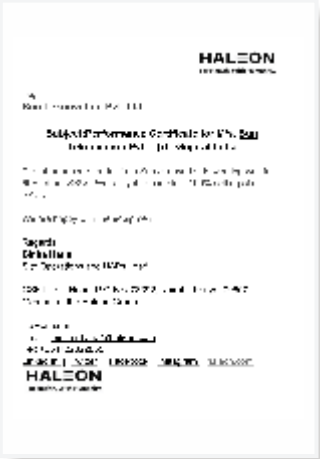


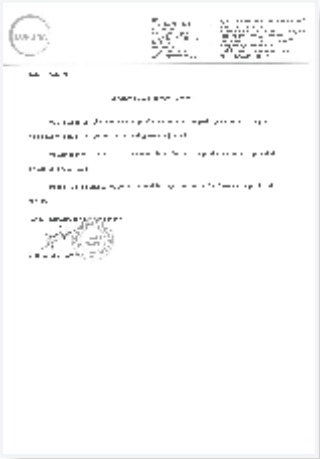




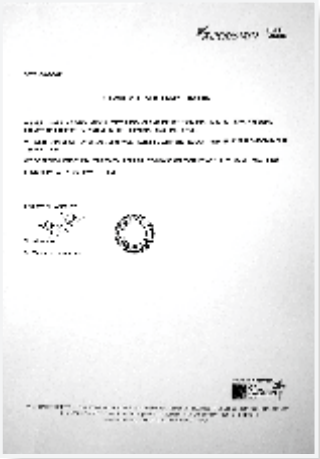












OUR CLIENTS



And Many More...

SIMPLIFYING INSPECTION
&
SECURE TRACEABILITY

13+
YEARS OF EXPERIENCE

1250+
INSTALLATIONS GLOBALLY

9+
COUNTRIES SERVED

200+
CLIENTS GLOBALLY

22+
IN-LINE PRODUCTS

Follow us on LinkdIn

Visit Website for more Information

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