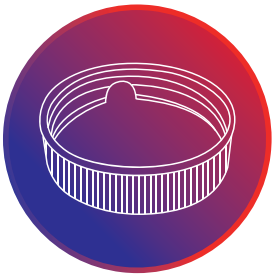
Electronics Devices
Worldwide Pvt. Ltd.
Making things happen

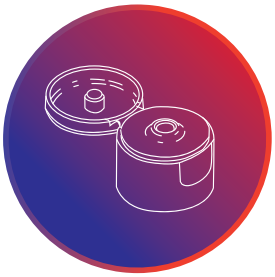
Sigma CapSeal
Induction Cap Sealing Solutions

CAP & CLOSURE AUTOMATION & ASSEMBLY MACHINES



Wad Inserting Machines

Cap Assembly Machines

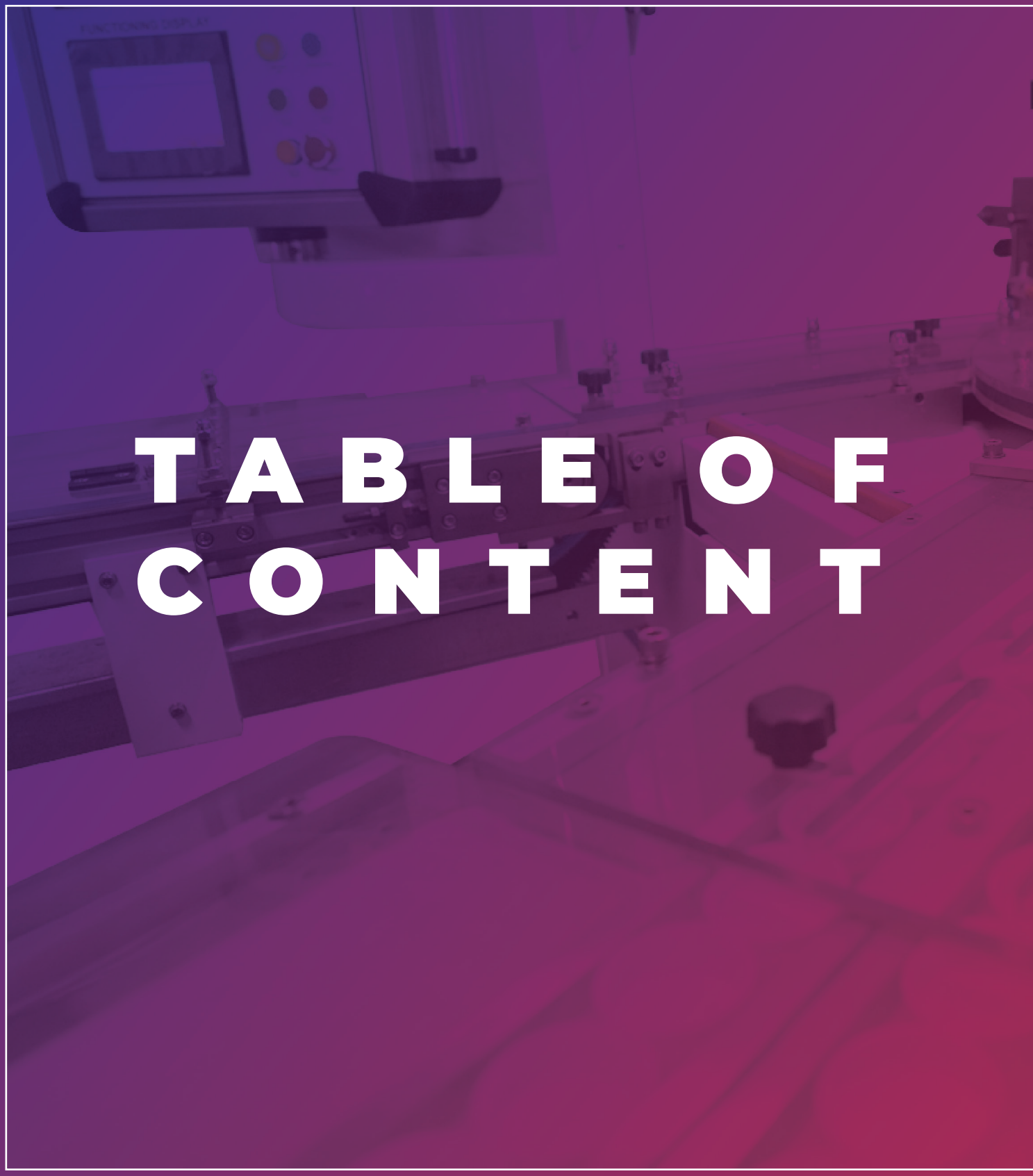


Flip Top Cap Folding Machines

Induction Capsealing Machines

Vision Inspection Systems

Lotion Pump Assembly Machines



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ABOUT US

We are Sigma CapSeal, one of the world's oldest & most trusted induction sealing & cap assembly machine manufacturing company. With over 250+ engineers ,4 manufacturing factories and last mile service support centres in over 35 locations we ensure our customers get quick and effective technical backup.

In last 48 years we worked with 30,000 customers spread across 80 countries.

Over 60 million bottles are sealed every hour worldwide using our induction sealers in over 50 different industries

Our strong track record of on time delivery of 98.94% has made us preferred vendor with Nestle, Sun Pharma, Dr. Reddy's, Tata Tea, ITC, Syngenta, Alpla, Weener Empire, RPC group, TPAC and many more...

Assured Quality

Cap Productivity

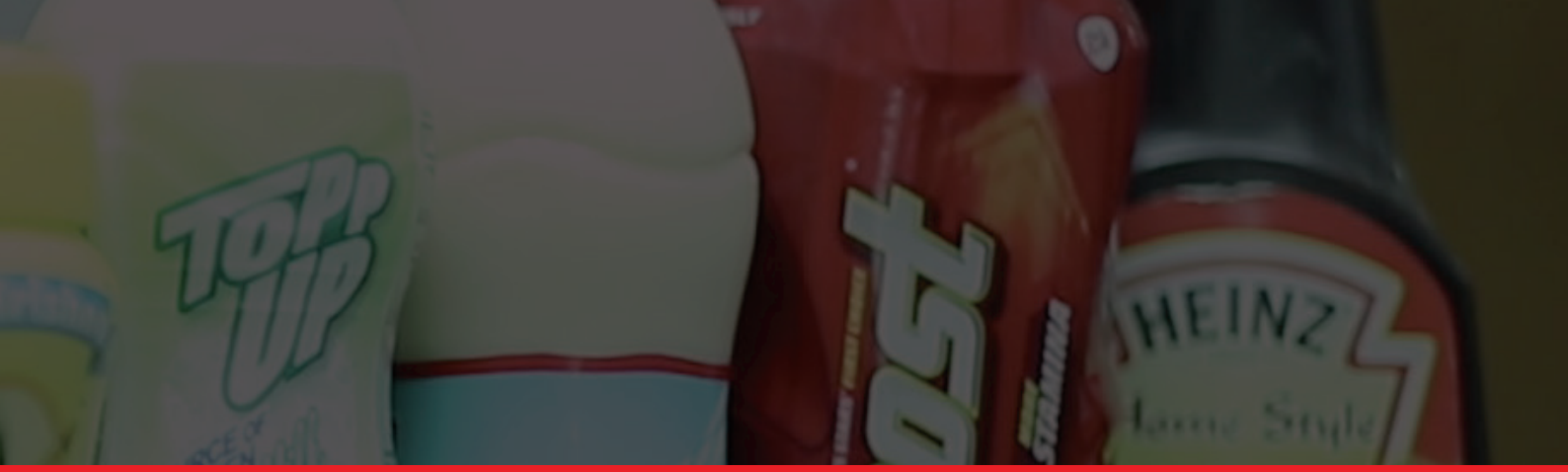
TEAM

A strong team of 250 plus employees having its culture revolving around the quality and service. Our ability to Making Things Happen for our customers starts with our team of experienced & capable Engineers. We come from a diverse set of experiences and backgrounds that range from Research, Machine Tool, Power Electronics, Pharma & FMCG professionals. As unique as we are individuals, we share a mutual passion for technology and doing excellent work for our customers and partners. We pride ourselves on our strategic, integrated approach towards engineering and the results it delivers.

R&D

We apply state of the art technology and have invested in research and development which continuously updates features and designs our machines to meet today's demands and rapid global footprint to become a world player.

CERTIFIED DSIR CERTIFIED



Tamper Evident

Cost Effective

Eco-Friendly

Expert Team

Easy Change Over

Better Return on Investment

Standard Parts

INFRASTRUCTURE

Established in 1974 in a mere 100 sq.ft facility, today in 4 decades Electronics Devices Worldwide has grown to have manufacturing facilities in Mumbai, Vasai, Umbergaon and USA totaling to over 1,00,000 sq.ft. We have dedicated Design teams for both Electrical & Mechanical R&D based out of Mumbai & Pune. Our Sales & service centers are located in Mumbai, Pune, Ahmedabad, Rajasthan, Delhi, Baddi, Kolkota, Bengaluru, Chennai and Hyderabad to offer local & quick support to our customers. Similarly, for overseas customers Sales & Service centers are based in USA, Latin America, Africa, Europe & Australia with sales spanning to over 80 countries.

BUILT TO LAST

Our first machine built in 1974, it still working in our customers factory. Our equipments are built to last with robust design and high quality components.

SERVICE AND SUPPORT

We have been dedicated to your success for many years and we understand how valuable your time is. Customer satisfaction is our #1 priority and what better way to serve you than by combining a team of experienced & Specialists solely dedicated to technical support, on-call or on-site.

Our team enhances the performance and longevity of your machine, thanks to our broad spectrum of services. You will benefit from our expertise and be a step ahead in prevention, maintenance as well as the latest technologies.

MILESTONES

2022
Twin port Sealing and Inspection Machine & DSIR approved R&D Lab

2021
Lotion Pump Assembly Machine & Sigma Neo 65 wins Pac Machine Award

2014
Ultra-Modern Manufacturing facility, Vision Inspection Systems.

2015
Sigma Jet wins Pac Machine Award

2013
Capless Induction Sealer

2012
Sigma III Touch wins Pac Machine Award, High Speed Wad Inserting Machines 200 CPM - HS200

2011
Pick n Place Wad Inserting Machines & Flip-Top Cap Folding Machines

1974
Established, High Frequency Di-Electric Pre Heater

1989
5KW Induction Cap Sealer for P&G

1998
2KW Solid State IGBT based Induction Cap Seaer- Energy Efficient

2020
Robotic Cap Assembly Machine

2019
Cap Banding Machine
200 Tups

2018
Seal Master

2016
Launch of Neo Series
High Speed Wad Inserting Machine - 400 CPM
HS - 400 Roll Fed

2017
High Speed Cap Assembly Machine - 200 CPM Combo Machine
Seal Check 120

2010
Established ED USA
2 Piece cap assembly & wad inserting machine - Combo machine

2006
Gravity type wad Inserting machines

2003
Air cooled induction cap sealer- High Speed

2000
Foundation of R&D Department

2001
Lab type induction cap sealer for pharma R&D labs

WAD INSERTING MACHINES

We have designed & developed several liner/wad inserting stations with Single Head, Double Head & Four Head.

FEATURES

- Machine can insert Induction wads & EP liners.
- Wad Thickness 0.2mm to 1.2mm.
- It can handle different cap diameters & shapes.
- High Productivity & Perfect Wadding.

Wide Range of wad inserting machines

140M	240M	240L	440M
Speed 40-60 CPM	Speed 80-120 CPM	Speed 80-120 CPM	Speed 160-200 CPM

Value Added Features

Rotary Feeder

Cap Elevator

Vibratory Bowl Feeder

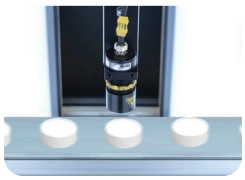
Hot Melt Applicator

Cold Glue

Sensor Arrangement

NO Wad | Reverse Wad | Batch Counter | Product Counter

Vision Inspection System



ROLL FED WAD INSERTING MACHINES

HSR-160

Speed: 140 - 160 Caps/Min

We offer traditional Punch & Die technology to cut a variety of material compositions.

FEATURES

- Machine can insert Induction wads & EP liners.
- Remote Access
- IoT
- Vision Inspection
- Optimum surface area utilization of liner material
- Quick & Easy Change over

HSR-200

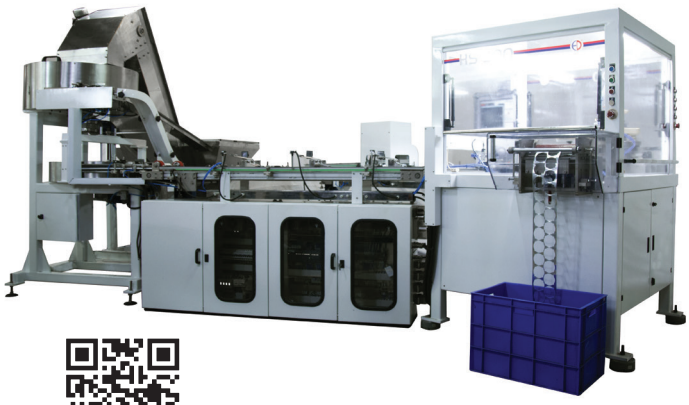
Speed: 180 - 200 Caps/Min

FEATURES

- Machine can insert Induction wads & EP liners.
- Remote Access
- IoT
- Vision Inspection
- Optimum surface area utilization of liner material
- Quick & Easy Change over

1up, 2up & 3 up

ROLL FED WAD INSERTING MACHINES



HSR-300

Speed: 280 - 300 Caps/Min

FEATURES

- Machine can insert Induction wads & EP liners.
- Remote Access
- IoT
- Vision Inspection
- Optimum surface area utilization of liner material
- Quick & Easy Change over

HSR-400

Speed: 350 - 400 Caps/Min

FEATURES

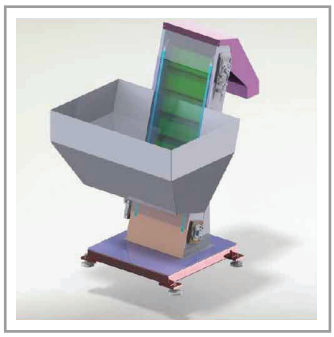
- Machine can insert Induction wads & EP liners.
- Remote Access
- IoT
- Vision Inspection
- Optimum surface area utilization of liner material
- Quick & Easy Change over

1up, 2up & 3 up

ROLL FED WAD INSERTING MACHINES

VALUE ADDED FEATURES

Cap Turn Table & Accumulator



Cap Elevator

In-Feed Conveyor

Exit Conveyor with Inspection Camera

Vision Inspection System

Hot Melt Applicator

Dust Extractor

Box Conveyor

Closure Types

Food

Beverages

Pharma

Personal Care

Household Care

Automotive

Agro Chemical

CAP ASSEMBLY MACHINES

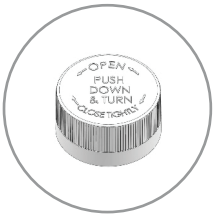
Bottom caps are dumped in a vibratory bowl feeder from where they will be oriented so that bottom wider dia caps are kept at the bottom are delivered to bottom star wheel than the entry chute.

Top caps are dumped in another vibratory bowl feeder wherein they are oriented cavity facing down delivered to the upper star wheel through the entry chute. This will be just above the bottom cap so that when they are rotated through a pressing roller they will be pressed and assembled.

FEATURES

- Our machine can handle any shape of caps.
- It can handle different types of cap diameters.
- We can provide different line speed
- Quick Cycle Time
- Sustainable
- Robust design and very versatile.

CT Cap



CRC Cap

Rectangular Cap

Jar Assembly

Spout Cap Assembly

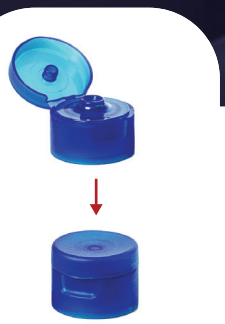
Ring Assembly

Push-Pull Cap

Disc Top

Dip Tube Assembly

FLIP TOP CAP FOLDING MACHINES



We have enormous experience in supplying flip top cap closing machines for a variety of cap designs with various hinge styles and latching features. Our closing machines use repeatable and highly efficient techniques to perform intricate closing functions.

Flip Top Cap Folding Machines provide cap moulding companies with great advantage

FEATURES

- Our machine can handle any shape of caps.
- It can handle different types of cap diameters.
- We can provide different line speed
- Quick Cycle Time
- Sustainable
- Robust design and very versatile.

INDUCTION CAP SEALING MACHINES

Our R&D team has had ample opportunity to work on simple and complex projects and have successfully designed and delivered sealing heads that have sealed millions of products day by day, be it CRC, Flat, Spout, Dispensing, Round, Oval, Square, Triangular, Handle etc. types of caps / closures.

SIGMA FLEX

Manual Induction Sealer

FEATURES

- Portable
- Digital Soft Touch Membranes
- Control Panel.
- Digital Up and Down Timer
- User-Friendly
- Continuous Operation - 24/7
- Fast, Easy Set-up.
- Cap Size: 20 to 120mm

Sealing Capacity: 4 - 6 bottles/min

SIGMA PRO

Truly Semi-Automatic Induction Sealer

FEATURES

- Portable
- Digital Soft Touch Membranes
- Control Panel & Sensor activated
- Digital Up and Down Timer
- User-Friendly
- Continuous Operation - 24/7
- Fast, Easy Set-up.
- Cap Size: 20 to 120mm

Sealing Capacity: 15 - 20bottles/min

SIGMA ECO

Online Induction Sealer

FEATURES

- Easy to move
- Saves Power
- Safety / Protection Alarms
- In-built Microprocessor Control
- Universal Sealing Head
- Digital Soft Touch Membranes
- Versatile
- Cap Size: 20 - 85mm

Max. Line Speed: 25 feet/min

SIGMA NEO 65

Online Induction Sealer

FEATURES

- Advanced Sealing Head
- Zero Set-up time
- It can seal any geometric shape circular, rectangular or square of bottle
- No coil adjustment is necessary.
- Security protection and alarm
- Ultra modern sealing head, with complete wax melt.
- Cap Size: 30 - 150mm

Max. Line Speed: 40 feet/min

SIGMA I NEO

New Generation Induction Sealer

FEATURES

- Easy to move
- Saves Power
- Safety / Protection Alarms
- In-built Microprocessor Control
- Universal Sealing Head
- Digital Soft Touch Membranes
- Versatile
- Cap Size: 20 - 120mm

Max. Line Speed: 32 feet/min

SIGMA II NEO

New Generation Induction Sealer

FEATURES

- Designed with latest IGBT Technology
- Compact all-in-one design
- Front panel with easy to use membrane switches.
- Sealing Head movement standard
- Conveyor stop system
- Overload protection & ALARMS
- No effect of voltage fluctuation.
- Cap Size: 20 - 120mm

Max. Line Speed: 55 feet/min

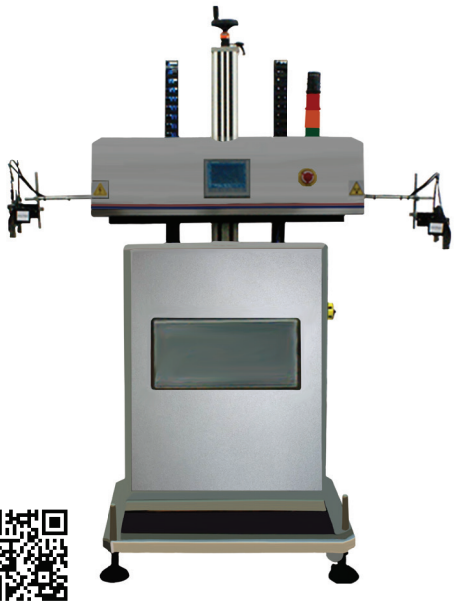
SIGMA III TOUCH

New Generation Induction Sealer

FEATURES

- Touch Screen control
- Easy to use and intuitive touch screen design.
- Supervisory password protection with operator lockout.
- Recipe Management
- Container, cap and foil counters
- Descriptive fault information
- Internal monitoring of all critical operating data.
- Cap Size: 20 - 120mm

Max. Line Speed: 80 feet/min



SIGMA JET

Online Induction Sealer

FEATURES

- Touch Screen Control for inspection and rejection.
- Easy to use and intuitive touch screen design.
- Supervisory password protection with operator lockout.
- Recipe Management
- Internal monitoring for all critical operating data.
- Ultra-modern sealing head, Complete wax melt
- Customized sealing head also available
- Cap Size: 20 - 120mm

Max. Line Speed: 100 feet/min

SIGMA JET CFR21 COMPLIANCE

Password Security

Password protected individual user accounts

Electronic Data Storage

Facility to store data file in hard disk at authorized user level.

User Management System & Privileges

Access level as operator, supervisor, manager, administrator, configurable/ selectable user access rights can be defined.

Audit Trial

System tracks for all creations, modifications and deletions performed in the system.

Old value & new value for any changed parameter or setting reflect/logged in Audit Trail.

System Data Back-up

The software has a facility for auto data back-up to any client or connected central server.

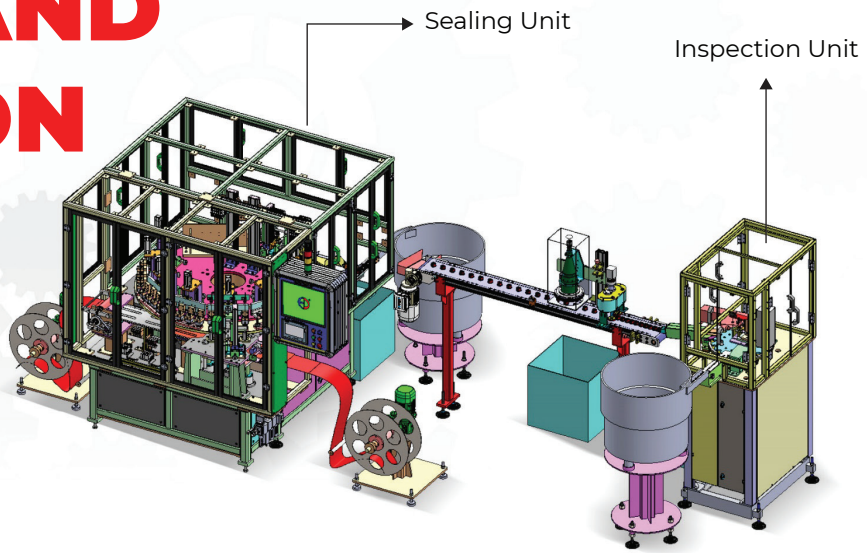
A separate path can be provided for back-up in SCADA at ADMIN LEVEL.

Report Generation

Report can be generated and can be saved in hard disk.
Report can be printed.

Max. Line Speed: 100 feet/min

TWIN PORT SEALING AND INSPECTION MACHINE



Inspection Unit

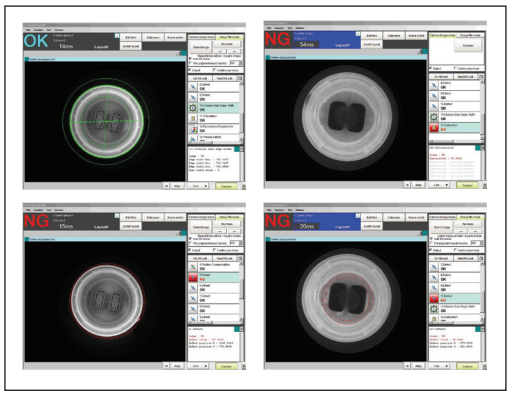
Caps travel from the Cap feeder to the cap inspection unit, where vision system camera 1 & 2 inspects the inside/outside of the plastic caps.

Camera-1 can detect:

- Cap Diameter
- Black spot 1 mm inside and lower surface of cap.
- Cap flash
- Rubber Absent
- Rubber Damage
- Cap color change
- Foreign particle in cap

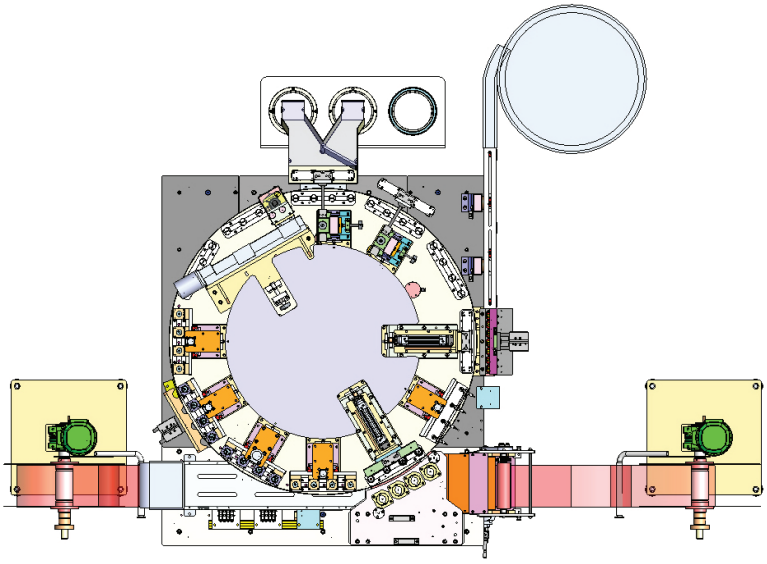
Camera-2 can detect:

- Rubber absent
- Cap Diameter
- Black spot on cap top surface
- Black spot on cap wall
- Foreign particle on cap



Sealing Unit

Station No:1 – Caps entry by Pick & Place to star wheel
Station No: 2 – Caps presence confirmation. If missing caps found machine stops
Station No:3 – Idle Station
Station No:4 – Foil punching & heat stick
Station No:5 – Idle Station
Station No:6 – Preheating foil for sealing
Station No:7 – Final heating foil for sealing
Station No:8 – Foil folding and sealing
Station No:9 – Foil sealing orientation check by camera
Station No:10 – Good jobs – exit by pick & place
Station No:11 – Bad jobs – exit by pick & place
Station No:12 – Idle Station



VISION INSPECTION SYSTEMS

Bottle Inspection

- Ring cut
- Black Spot
- Pinhole
- Oil mark
- Oval shape
- Cut bottle
- Thread damaged
- Flashes on body
- Scratch on body
- Bottom ballooning
- Foreign particles

Label Inspection

- Absence of label
- Label pair validation
- Position & Alignment Error
- Graphical label Verification
- Barcode Verification
- Inspection for double labels

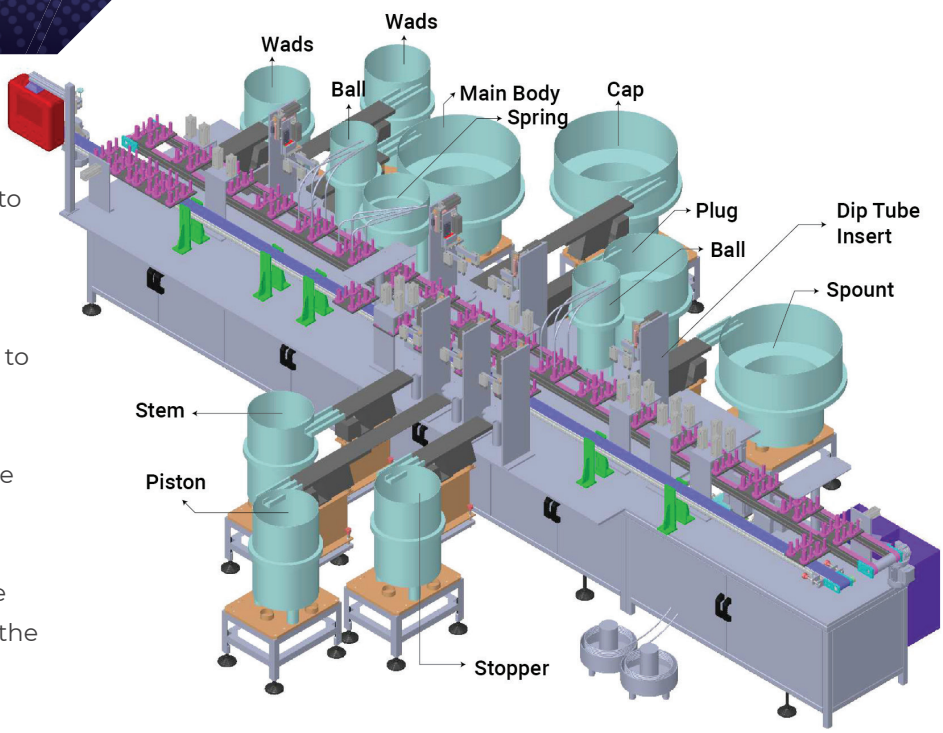
Cap Inspection

- Black spot
- Pinhole
- Shrinkage
- Oil mark on the
- surface
- Warpage
- Scratches
- Cracked cap
- Cut cap
- Short mold
- Damage at the end
- Excess gate point

Wad Inspection

- Wad damages
- Foreign particles
- Shade variation
- No ead
- Reverse wad
- Scratches
- Shifted wad
- Dent

LOTION PUMP ASSEMBLY MACHINE



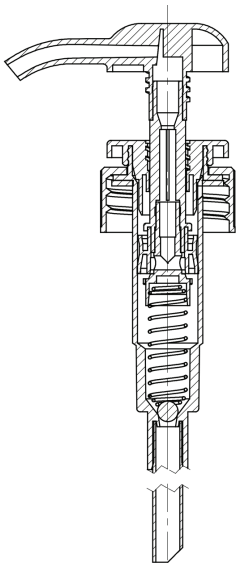
The machine consist of a fabricated machine base with top plate machined to close accuracy.

The various pump components are fed through vibratory bowls & linear feeders to common conveyor which is carrying number of pallets having 4 pockets, get indexed to different stations where in the components get assembled.

The components are picked up from the end of chutes and placed / pressed into the pallets one after another.

This is a pneumatically operated pick & place arrangement. At the end of assembly the dip tubes are inserted and are inspected for leakage and accordingly discharged to either reject or accept bins.

All electrical items used are of standard make. PLC & HMI are of Mitsubishi/ Delta make.	All pneumatic items used are of FESTO / SMC make.



Technical Specification

Power Requirement	
All vibratory bowl feeders (12 Nos)	7.0 KW
Conveyor Motors (2Nos)	1.5 KW
Dip Tube Insert Motor (Stepper motor)	0.4KW
Rotary Star Wheel (7nos. Stepper motor)	1.5KW
Total Power	10.4KW
Air Consumption	25 CFM for Cylinders only at 6 bar 12 Vibrators free air (Continuously open)
Production Capacity	100 to 110 Assembly / min
Machine Layout	6000 (L) x 4100 (W) x 1500 (H)

OVER 30,000 SATISFIED CUSTOMERS

- Alpla
- Pano
- Weenar Plastics
- TPAC
- FPP
- Manjushree
- Polyoak Packaging
- Mantin Closures & Caps
- Pravesha
- Multiplast
- Aptar
- Vivek polymer
- Bloom Seal Container
- ACIP
- Blow Plast
- Convertacor
- Chemco
- Pharmacylite
- Poly Product
- and many more...

WORLDWIDE REACH
EXPORTS TO OVER 80 COUNTRIES

48 YEARS
EXPERIENCE IN CAP & CLOSURE AUTOMATION

"Our Technical Support Team Is Always On Hand To Assist You"

sigmacapseal@edmail.in
+91-9653326198
electronics.devices

MAKING THINGS HAPPEN

Electronics Devices
Worldwide Pvt.Ltd.
Making things happen

Electronics Devices Worldwide Pvt. Ltd.
608, 6th Floor, Windfall, Sahar Plaza, Next to Kohinoor Hotel,
JB Nagar, Metro Station, Andheri East, Mumbai - 400056, India.
Mobile: +91-9653326198 **Tel:** +91.22.45410500 / 45410600
Email: sigmacapseal@edmail.in
Web: www.inductioncapsealing.com

Sigma CapSeal LLC
1757 W. Redfield Road,
Gilbert, AZ 85233, USA.
Mobile: +1.480.820.5091
Email: sales@sigmacapseal.com
Web: www.sigmacapseal.com