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COMMITMENT VISION HONESTY
CVH INDUSTRIES

CREATIVE | INNOVATIVE | PROFESSIONAL



REVOLUTIONIZING GLASS BOTTLING INDUSTRY

From India to the world 'Advanced glass bottle washing machine'

20+

Years of Experience

100%

Quality Service

200+

Projects Completed

24/7

Technical Support

- High-Performance Bottling Machinery
- Precision Engineering & Global Standards
- Advanced and Latest Technology
- Reliable After-Sales Support Worldwide

www.cvhindustries.com

COMPANY PROFILE

CVH INDUSTRIES is a professionally managed organization manufacturing machineries on “turnkey” for Distillery, Brewery, Beverage and Water Industries since 1999.

Our Products are designed and manufactured in accordance with global standards and precision at our state-of-the-art manufacturing facility in Chennai. Our products are preferred in the industry for quality and after sales support which we provide. At CVH we are sensitive to our customer needs therefore all our products are designed, manufactured and tested to ensure that maximum value is delivered to the customer. In addition to our standard products we also offer customized tailor-made products to suit specific requirements of our customers.

The CVH Advantage

At CVH we lay emphasis on 3M i.e. Men Machine & Method. Our Engineers are fully trained to deliver maximum value to our customer through proven machinery & methodology we offer. Further the customer has the abundance of our experience to fall back on to implement and improve the process through the detail productivity improvements inputs. The population of machines and a host of Satisfied Customers in India and abroad is a true testimony to the Quality Of our Products & Services.

1

OUR VISION

Our vision is to be an organization that delivers reliable products, which are manufactured under eco-friendly processes with stringent quality control as a standard protocol to adhere with Quality Norms in Line with international Standards.

2

MISSION

At CVH Industries, our mission is to provide innovative, high-quality, and cost-effective manufacturing solutions, fostering technological leadership, and ensuring customer satisfaction through excellent products and services.

3

OUR VALUES

At CVH Industries, our core values guide every aspect of our work. We believe in Quality, Innovation, Integrity, Customer Focus, Safety, Sustainability, Teamwork, operational standards, and the commitment to continuous improvement for long-term success.



OUR ESTEEMED CLIENTS

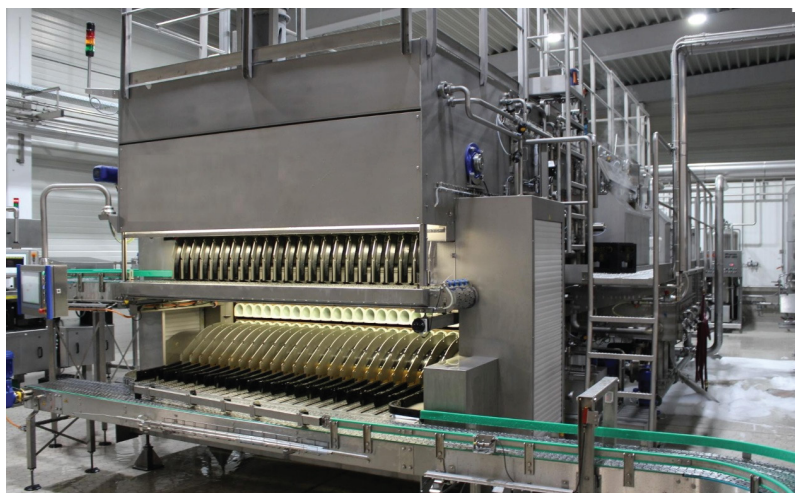
The exhaustive list of clients is a testimony to our sustained growth, to name a few Pepsi, Coca-Cola, Bisleri, Sahara, Kingfisher, Budweiser, Kaalaiyan Soda, Pop and Gulp, Bacardi, Assess Sro-Slovakia, Podaran, 777, Kannan Soda, Pernod - Ricard and many more.

CONSULTANCY SERVICES

We offer a host of services to assist our customers from the project planning stage to the commissioning of the project and shall include: -

1. Counseling and expert advice on viability of project
2. Project report and detailed project Plan.
3. Design of plant lay out.
4. Detailed technical specifications of the various machines and other utilities required.
5. Installation testing and commissioning of the machineries.
6. Trial runs, Fine-tuning and commencement of commercial production.

HIGH PERFORMANCE SINGLE END GLASS BOTTLE WASHER FOR SPARKLING CLEAN RESULTS



CVH Automatic glass bottle washers are revolutionizing bottling industry by providing automated, high-efficiency cleaning and sanitation for returnable soiled liquor, beer, wine, soft drink, milk and mineral water bottles, replacing manual processes that were time-consuming, risky, and prone to human error.

These machines offer comprehensive, multi-stage cleaning cycles, including pre-rinsing, hot caustic soaking and hot water washes, internal and external high-pressure sprays, and final rinsing to ensure bottles are contaminant-free and safe for reuse.

Key technological advancements include label separation, water recycling, and energy regeneration, making the process more productive, cost-effective, hygienic, and eco-friendly.

How CVH Bottle Washers Revolutionize the Industry

Enhanced Hygiene and Safety:

The machines ensure thorough cleaning and sanitation, eliminating residues and contaminants, which is crucial for product quality and safety.

Increased Productivity:

Automatic bottle washers handle high volumes of bottles, significantly increasing output compared to manual washing methods.

Reduced Risk and Errors:

Automation removes the risk of human injury during bottle handling and minimizes errors in the washing process.

Improved Cost-Effectiveness:

By recycling water and energy, these machines minimize steam and water consumption, making the operation more economical.

Environmental Benefits:

Technologies like water recycling and energy regeneration contribute to a eco-friendlier bottling process.

Key Features and Technologies

Multi-Stage Cleaning Process:

Typically includes a pre-rinse, detergent wash, rinsing with hot water or caustic solution, and a final sanitizing rinse.

Automated Systems:

Automatic loading and unloading of bottles improve efficiency and reduce labor.

Label and Foil Removal:

Specialized systems effectively remove labels and foils, simplifying the cleaning process for returnable bottles.

High-Pressure Spraying:

Internal and external high-pressure sprays ensure thorough cleaning of every bottle's surface.

Water and Energy Recycling:

Systems are designed to conserve resources by reusing water & regenerating energy from steam and hot water.

WHO BENEFITS



Bottling Companies:

They gain higher output, hygienic sparkling bottles and more reliable operations.



Consumers:

They benefit from safer and higher-quality products due to improved bottle hygiene.



Employees:

Manual labor is reduced, minimizing risks and creating a safer working environment.

Furthermore, all components are optimally designed to ensure high serviceability and durability. Boasting low heat consumption, low disinfectant carry-over proportion, and economical use of water, our glass bottle washer is able to meet the increasing demands of the beverage industry from both ecological and economic points of view.

Our glass bottle washing machine are widely used in industries such as



Brewery unit



Distillery unit



Dairy plant



Soft drink plant



Juice plant

Salient Features

- Fully automatic bottle washing system
- A wide range of models
- Ecologically friendly solution for bottles reuse
- Universal application in bottling plants
- Outputs from 60-400 BPM
- Efficient cleaning and sterilisation of bottles
- Complete removal of labels & foils
- Label separators
- Digital temperature control
- Steam condensate equipment
- Lye filtration
- Vapour extractor
- Water recirculation
- Low water & steam consumption
- Safety clutches and limit switches
- Dual voltage safety system
- Emergency stop
- Fault annunciator
- Easy and low-cost maintenance

FUNCTION

During the washing process, the bottles are gradually stripped of dirt. The washing process can be divided into 7 successive phases:

Pre-soak.

- 2-fold pre-wetting
 - 1x pre-soaking with water at 35°C
 - 1x rinse with water from the overflow of the spray section at 50°C
-

Long duration soaking, exposure to lye

- main caustic bath temperature 70-85°C
-

Label removal

- 2-stage label removal
 - High Pressure Spray – 1 nozzle per throat.
 - Overflow rinse – 2 nozzles per throat.
-

Spraying and rinsing bottles

- closed section, which prevents leachate from entering other parts of the washer
 - 1x splash of 65-70°C water using a fixed shower
 - 1x rinse with 65-70°C water using a fixed shower
-

Spraying, rinsing and cooling of bottles

- 3 sections cascaded
 - 6x spraying with water at 20-65°C using rotating showers
 - 4x water spraying at a temperature of 20-65°C using fixed showers
 - 3 rinses with water at 20-65°C using fixed showers
-

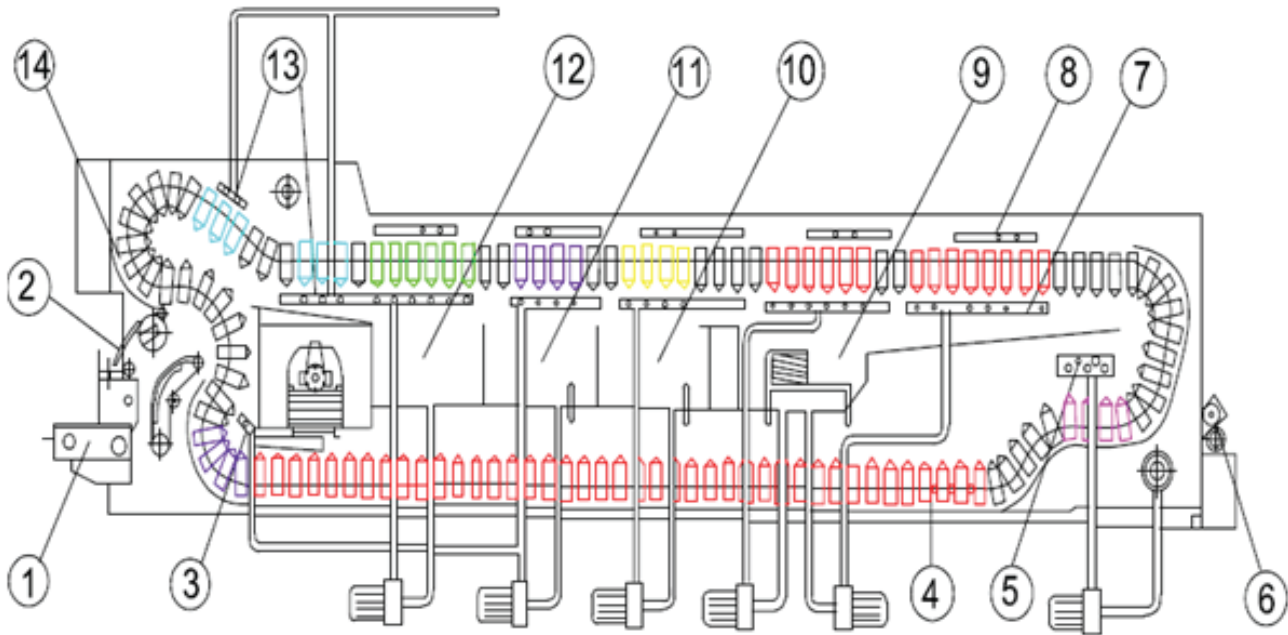
RO water spray

- 2x spraying with RO water using rotary showers, (nozzle diameter 2.5 mm)
 - 1x RO water spray with fixed showers, (nozzle diameter 2.5 mm)
-

Water Dripping Zone and Bottle Unloading



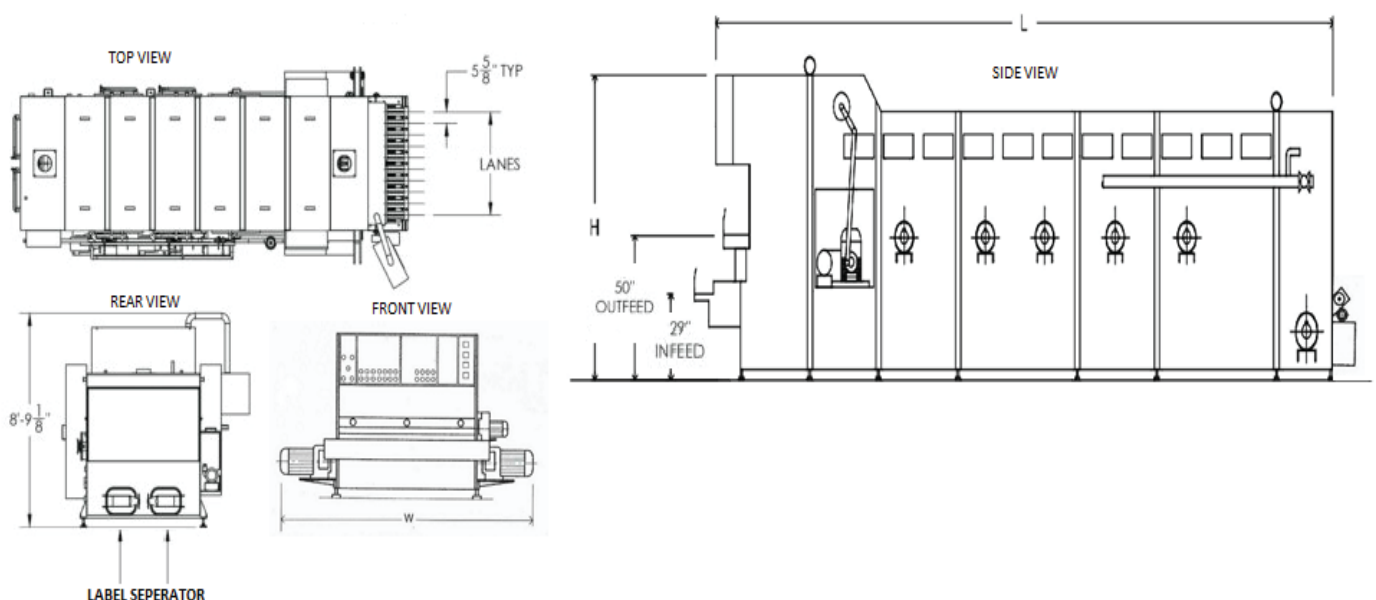
GLASS BOTTLE WASHER CROSS SECTION VIEW



TREATMENT CYCLE		
	Preliminary spray	40°C
	Main Caustic soak	65°C
	Hot Caustic Iye flushing	65°C
	Hot Caustic Iye spraying (Internal/External)	80°C
	Hot water spray	50°C
	Hot water spray	40°C
	Fresh water spray	30°C
	Fresh water spray	Ambient
	Drip off zone	

1. Auto loader
2. Bottle discharge
3. Pre-spray 40°C
4. Main caustic soak 65°C
5. Label flushing spray
6. Label separator
7. High pr. internal spray
8. High pr. external spray
9. Caustic zone 80°C
10. Hot water zone 50°C
11. Hot water zone 40°C
12. Hot water zone 30°C
13. Fresh water sprays
14. Drip off zone

MACHINE LAYOUT



Automatic Glass Bottle Filler & Crowner



AUTOMATIC GLASS BOTTLE FILLER & CROWNER

Features of Glass Bottle Filling Machine

1. Stainless steel construction, multiple functions, high level of automation, easy maintenance
2. Applicable to different bottle types
Bottleneck clamping device and for safe and efficient filling
3. Advanced technology from Germany and Italy adopted
 - (1) Provides accurate liquid level control and fast filling
 - (2) Fully enclosed beverage storage tank and CIP interface
4. Avoids damage to the cap surface. Caps can be automatically fed through cap vibrator.
5. Magnetic torque is used for screw capping, causing no damage to the cap.
6. Touch screen panel:
 - (1) Automatically controlled liquid level
 - (2) Automatic stop filling and capping without bottles
7. All parts that come into contact with the beverage are made of stainless steel, providing good hygiene and a more effective cleaning.
8. Main electrical parts are from internationally well-known brands.

Technical parameters

The systems can work with water and carbonated soft drinks, beer, cider, sparkling wines. The bottling process takes place by bringing the glass bottle into contact with the dispenser, creating a positive pressure in the bottle to balance the pressure of the vessel, and accurately governing its depressurization to prevent any formation of foam or overflow of the liquid involved.

The filling machine can also be used very efficiently for bottling still beverages of various densities (with or without pulp). The vessel can withstand a working pressure of 6 bar and is tested for pressures up 9 bar.

CVH Industries manufactures automatic glass bottle filling and sealing machines, offering a range of models for various production capacities.

These machines are designed for filling a variety of liquids into glass bottles, including carbonated and still beverages, and can be part of a complete bottling line.

TUNNEL PASTEURISER



TOP 3 BENEFITS

Sustainability

Excellent product quality

Ergonomics

CVH Tunnel pasteurizers are high-quality, sustainable, ergonomic machines designed for beer, soft drinks, juices, sport drinks, etc. The system is designed to manage fresh water usage, reducing water and steam consumption during the pasteurization control phase, the water to cool down the central tanks is taken from the adjacent tanks, saving fresh water and also optimizes start & stop sequence.

Design Specifications

- ✓ Self-cleaning spray nozzles
- ✓ Equip able with self-cleaning header
- ✓ All the tanks have sloped bottom and man-hole doors
- ✓ Hygienic design
- ✓ High accessibility to the tunnels
- ✓ Top area fully walkable and equipped with removable top covers.
- ✓ Our software is very user friendly and gives clear indications about machine functioning and performance

Features
Easy accessibility through then side doors and covers on the roof
Easy accessibility to tanks through manhole doors
High density spraying
High, evenly distributed spraying flow rate
Water flow optimisation
Quick Heat Transfer Super Heat Zone
Low Water and steam Consumption
Economy of Space
Energy Saving
Stainless Steel In-feed, Out-feed
Stainless Steel extra heavy-duty flat mesh belt
Clog free Stainless-Steel Spray Pans
Perfect Automatic Temperature Control Panel
Fully Automatic Electric and Remote Panels with digital Readout and Printout
Modern Pumping System

Intelligent Conveyor Systems For Bottles



Bottle Conveyor belt and roller conveyor, Handling Systems manufactured by CVH INDUSTRIES are sturdy, efficient and of high quality.

Thanks to many years of experience in the industry, CVH designs and manufactures a complete range of roller conveyors and conveyor belts for handling boxes, bottles, containers, jars or trays.

These systems are necessary for operation of the packaging line and for the integration of the various machines that comprise it.

In addition, CVH also makes all related accessories that complete these lines of conveyor belts, such as aligning devices, accumulation benches, diverters, rotating tables and accessories.

The standardisation policy of components, combined with the choice of high-quality components that are easy to find in the market, also facilitates routine maintenance operations for the customer.

Our Product Range for Distillery, Brewery, Beverage and Water Industries

- ✓ Glass Bottle Washing Machine
- ✓ Bottle Tunnel Pasteurizers
- ✓ Fully Automatic Rinsing, Filling & Capping Machines for Minerals Water, Carbonated soft drinks & Soda in Pet bottles and Glass bottles
- ✓ SS Slat Chain Conveyors
- ✓ Water Treatment Plants
- ✓ Beverage Processing Equipment's
- ✓ Chillers
- ✓ Pet Bottle Blowing Machines – Automatic & Semi-Automatic
- ✓ Automatic labelling machine

Water & Waste Water Treatment Plants

- ✓ Water Treatment Plants of various Capacities
- ✓ Sea water Desalination Plants of Different Capacities
- ✓ Effluent Treatment Plants



SS Mineral Water Plant



**Automatic Pet
Blowing Machine**



**Automatic Monobloc Rinser,
Filler & Capper**



Blending Tanks

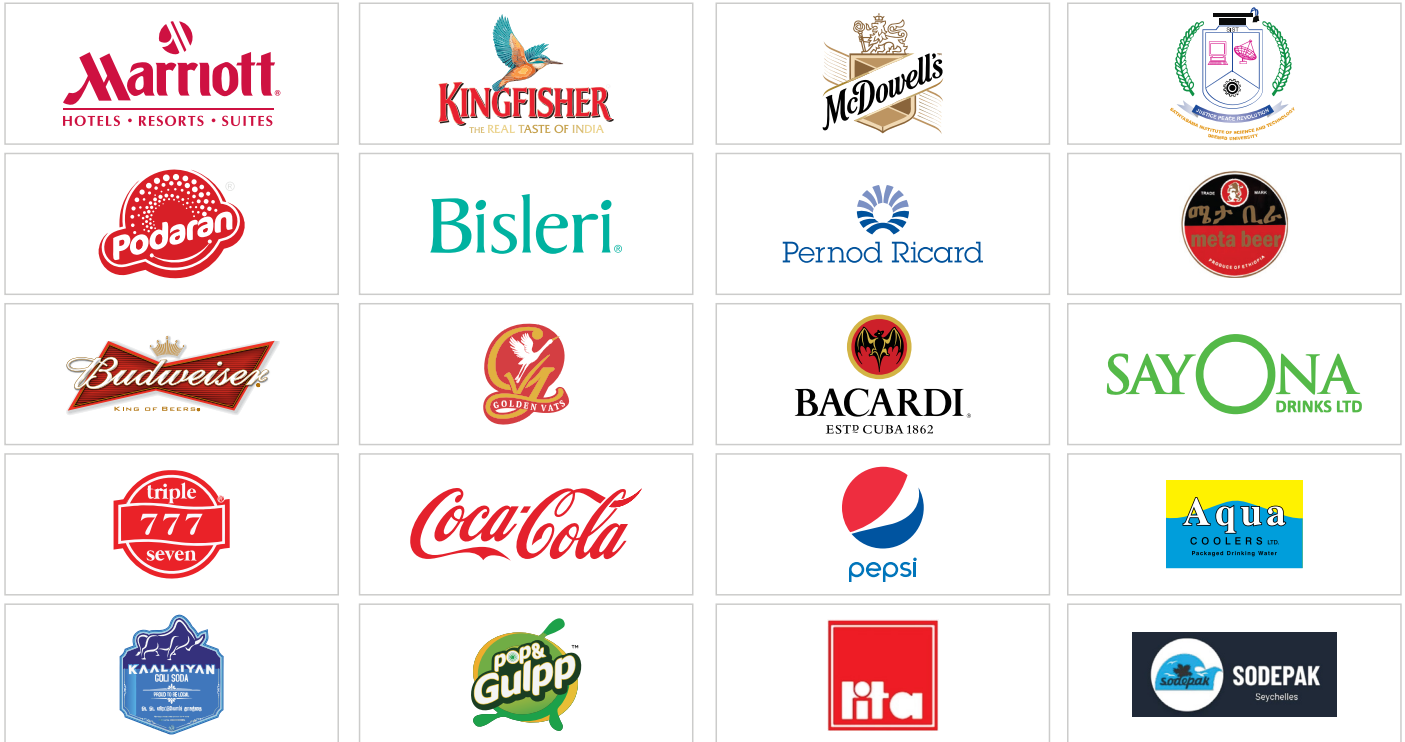


Glycol Chiller With PHE



Premix With Carbonator

Our Valuable Clients



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