

HYDRA

MEDIUM AND HIGH SPEED BOTTLE WASHING



*Performance
through
Understanding*

 **Sidel**



PRODUCT CARING AND RESOURCE EFFICIENT BOTTLE WASHING IN A FLEXIBLE MACHINE

APPLICATIONS

RETURNABLE CONTAINERS REDUCE YOUR ENVIRONMENTAL FOOTPRINT, BUT YOU CANNOT COMPROMISE ON BOTTLE QUALITY, PERFORMANCE OR TCO. THE HYDRA BOTTLE WASHER HELPS YOU WIN ON ALL COUNTS WITH A FULLY RELIABLE, EFFICIENT AND SUSTAINABLE WASHING PROCESS.



Product Quality

The quality of your containers has an influence on your brand's image and on the product experience you offer to your consumers. That is why Hydra has many technological solutions to guarantee careful handling of your bottles and an optimal washing cycle.



Sustainability

Bottle washing systems can use a lot of resources. Because your environmental footprint and your operating costs are at stake, Hydra was designed to reduce your water and energy consumptions, and also to lengthen the lifespan of your equipment.



Flexibility

Multiple formats, shapes and materials: you sometimes have to manage a large variety of bottles. Hydra offers you optimal versatility and customizable design for your solution with flexible management of your formats and output rates in production phase.



BEER



WINE AND SPIRITS



CSD
(CARBONATED SOFT DRINKS)



GLASS



PET

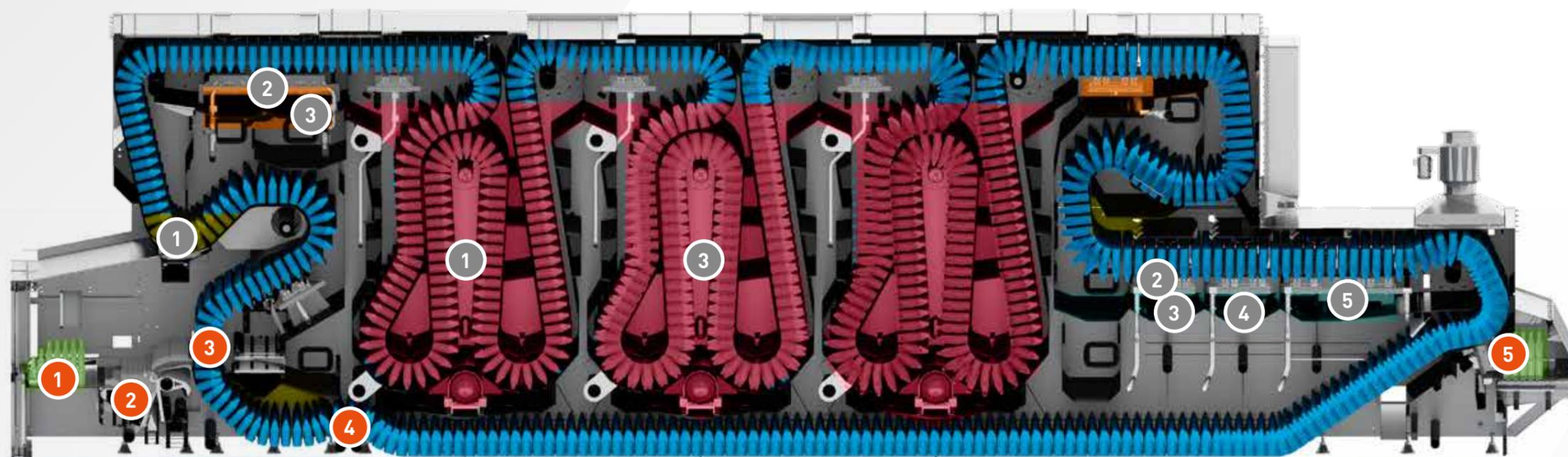


FROM 15K TO 100K BOTTLES/HOUR

PRESERVING THE QUALITY OF YOUR CONTAINERS

TO GUARANTEE A PERFECT CONTAINER BEFORE FILLING, HYDRA IS EQUIPPED WITH SYSTEMS TESTED FOR THE ELIMINATION OF ANY RESIDUAL PRODUCT OR FOREIGN BODY INSIDE OR OUTSIDE THE BOTTLE.

- 1 EFFICIENT LABEL EXTRACTION**
 thanks to strong water flow and fast rotating brushes
- 2 OPTIMAL BOTTLE WASHING**
 thanks to patented spraying nozzle design
- 3 COMPLETE FILTERING SYSTEM**
 at the detergent tank to ensure bottle quality and hygiene
- 4 DIRT AND FOREIGN BODY REMOVAL**
 thanks to sand package
- 5 WATER REMOVAL**
 at bottle bottom thanks to air blower



- 1 SMOOTH BOTTLE CONVEYING**
 to the automatic loading system
- 2 SOFT BOTTLE LOADING**
 thanks to pairs of gripping fingers and swinging shaft
- 3 CAREFUL BOTTLE TRANSFER**
 from chutes into pockets thanks to synchronized movements
- 4 SEAMLESS BOTTLE HANDLING**
 thanks to synchro-drive system with automatic chain tension procedure to avoid stop-flow
- 5 GENTLE BOTTLE TRANSFER**
 in upright position from the transport pocket to the sliding plate, perfect centering thanks to prismatic chute channels

HYDRA ENSURES THE CAREFUL GRIPPING OF YOUR CONTAINERS: FROM MACHINE SUPPLY TO UNLOADING, NOT TO MENTION THEIR TRANSFER THROUGH ALL WASHING CYCLE PHASES.

IMPROVE YOUR SUSTAINABILITY

THIS REPRESENTS YOUR GUARANTEE FOR THE BEST WASHING QUALITY OF YOUR BOTTLES WITH MINIMAL WATER AND ENERGY CONSUMPTION.

IT IS ALSO ABOUT ENSURING THE SUSTAINABILITY OF YOUR INSTALLATION OVER TIME.

REDUCE YOUR CONSUMPTIONS

Efficient temperature control at bottle discharge

The fresh water flow rate is automatically set by the software at the minimum value possible to comply with rinsing and discharge temperature requirements under all working conditions.

Water consumption optimization in 4 steps:

1. Setting of the bottle discharge temperature on the HMI
2. Detection of the bottle presence by a sensor
3. Actual bottle temperature check by infrared probe
4. Fresh water valve modulation by the HMI to optimize water consumption



INCREASE THE LIFESPAN OF YOUR EQUIPMENT

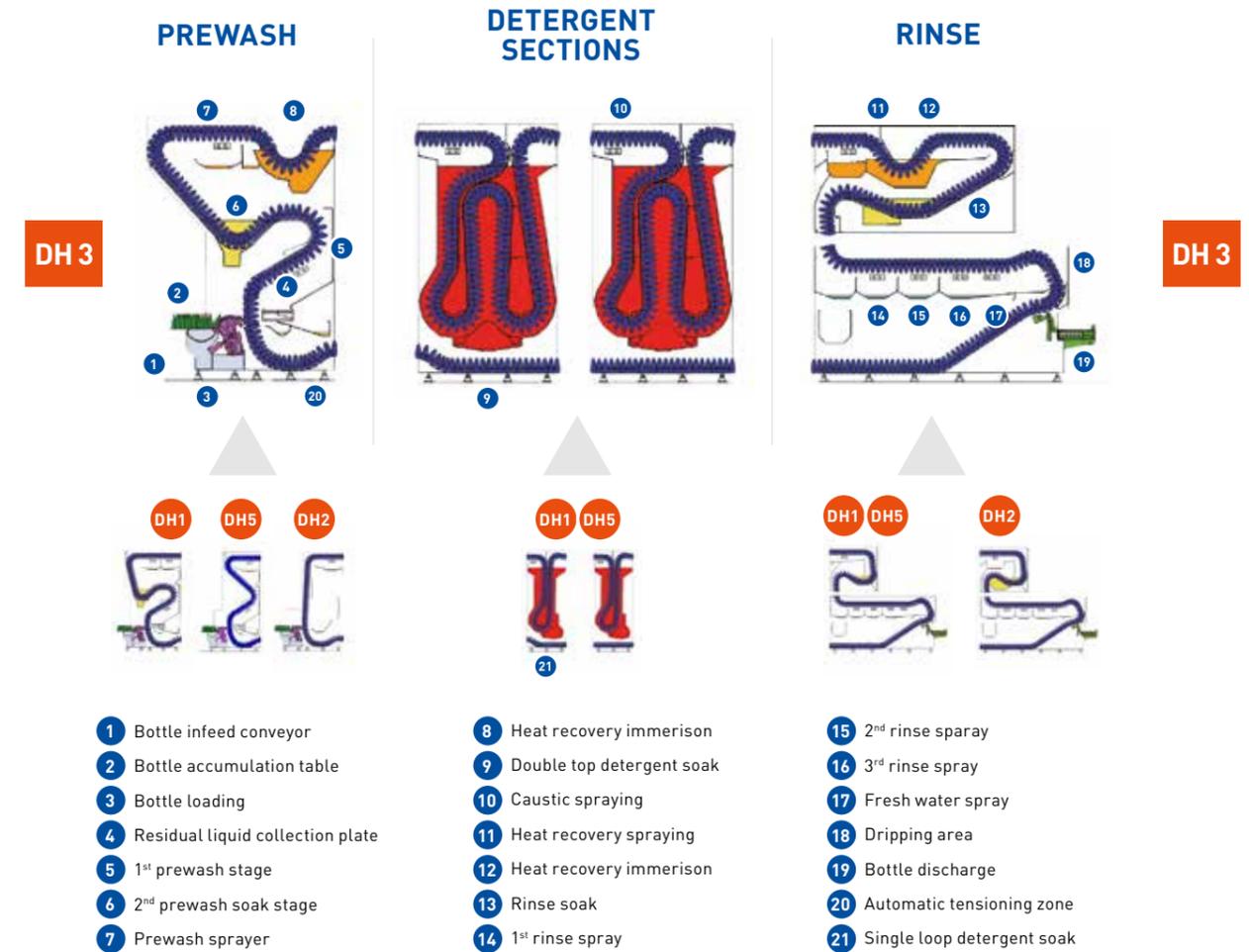
A predictive system informs you on the needs for main chain maintenance by:

- A dedicated report available on the HMI detailing wear trend
- An alarm triggered when the chain is close to the end of life

MEET YOUR FLEXIBILITY NEEDS

CONFIGURATION

THANKS TO ITS MODULAR DESIGN, HYDRA IS THE MOST FLEXIBLE SOLUTION TO BEST MEET YOUR SPECIFIC NEEDS.



BOTTLE SHAPES, FORMATS AND MATERIALS

Hydra is capable of handling most glass and PET bottle formats, new and reusable, thanks to its versatile transport pockets.



OUTPUT RATES

Being flexible also means adapting your production output rate to the seasonality of your demand. According to your needs at any moment, Hydra is capable of supporting output rates between 15k and 100k bottles per hour.

Sidel is a leading provider of equipment and services solutions for packaging beverage, food, home and personal care products in PET, can, glass and other materials.

With over 40,000 machines installed in more than 190 countries, we have nearly 170 years of proven experience, with a strong focus on the factory of tomorrow with advanced systems, line engineering and innovation. Our 5,500+ employees worldwide are passionate about providing solutions that fulfil customer needs and boost the *performance* of their lines, products and businesses.

Delivering this level of performance requires that we stay flexible. We continuously ensure we *understand* our customers' changing challenges and commit to meeting their unique performance and sustainability goals. We do this through dialogue and by understanding the needs of their markets, production and value chains. In turn, we apply our solid technical knowledge and smart data analytics to ensure lifetime productivity reaches its full potential.

We call it *Performance through Understanding*.

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