

WASHING



# BOTTLE, CAGE AND RACK WASHERS







EXPLORE IWT COMPLETE RANGE OF SOLUTIONS FOR YOUR WASHING NEEDS: OUR OFFER INCLUDES BOTTLE, CAGE AND RACK WASHERS WITH DIFFERENT OUTPUTS, TO MEET YOUR FACILITY REQUIREMENTS

IWT IS THE IDEAL PARTNER FOR THE CARE OF YOUR FACILITY AND FOR THE OPTIMIZATION OF YOUR CLEANING WORKLOAD.

OUR CONSTANT INVESTMENT IN TOOLING, TECHNOLOGIES, AUTOMATION, PRODUCTION CAPABILITY, STOCK AVAILABILITY, STAFF RECRUITMENT AND TRAINING, TOGETHER WITH THE ISO CERTIFIED QUALITY AND ENVIRONMENT MANAGEMENT SYSTEMS, ARE THE KEY-FACTORS OF IWT SUCCESS. OUR FIELD OF EXPERTISE IS EXTENSIVE – FROM COMPACT IN-LINE BOTTLE WASHERS UP TO FULLY INTEGRATED AND AUTOMATED SOLUTIONS FOR BOTTLES, CAGES, LIDS AND LOGISTIC PROCESSING.

IWT PORTFOLIO, COMBINED WITH TECNIPLAST OFFER, RESULTS IN AN UNIQUE 360° UNDERSTANDING OF THE NEEDS AND CHALLENGES TYPICAL OF MODERN VIVARIA.

THE RESULT IS A SET OF EQUIPMENT DESIGNED TO EXCEED THE DEMANDS OF THE MOST STRINGENT AND SPECIFIC HYGIENIC GUIDELINES, HEALTH AND SAFETY DIRECTIVES.

IN ORDER TO MAKE YOUR DAILY OPERATIONS EVEN MORE EFFECTIVE AND EFFICIENT, ALL OUR WASHERS ARE COMPLETED BY PURPOSELY-ENGINEERED ACCESSORIES SUCH AS CRATES, CARTS, TRANSPORT TROLLEYS AND PRESENTATION RACKS.

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# CAGE & RACK WASHERS



ATLANTIS  
EASY



ATLANTIS  
EVO



ATLANTIS  
EVO XL

## ATLANTIS

THE NEW BENCHMARK FOR  
OPERATIONAL EFFICIENCY  
AND FLEXIBILITY

AVAILABLE UNDER THREE  
DIFFERENT CONFIGURATIONS:  
EASY, EVO AND EVO XL  
DEPENDING UPON CHAMBER SIZE,  
REQUESTED APPLICATIONS  
AND OPTIONS SELECTION.



## ATLANTIS

### Greater efficiency

Compared to our previous generation washers, Atlantis offers:

- 10% increased loading capacity (up to 130 mice cages/cycle)
- 50% increased total water impact force (pressure and water flow at nozzle level) for effective cleaning
- 10% to 20% less footprint required, including technical space

### Greater flexibility and modularity

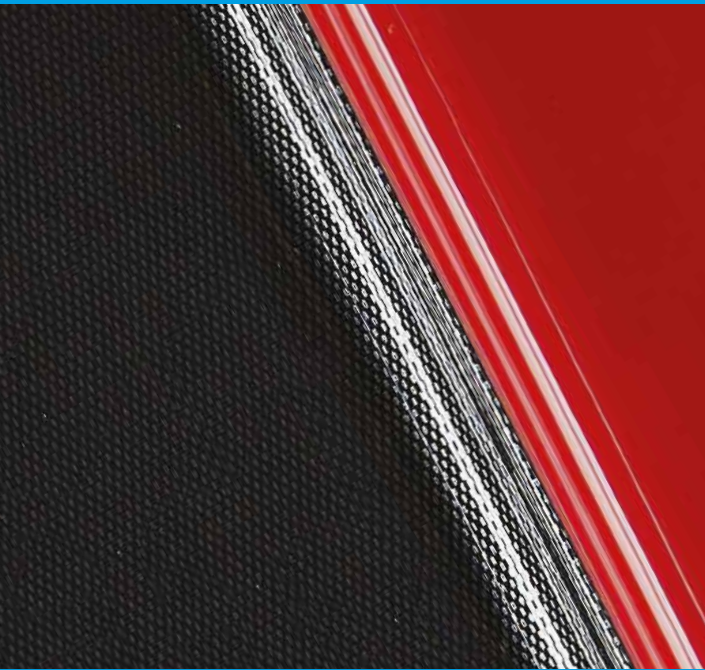
- The modular design typical of our Lean Manufacturing makes Atlantis suitable for future functionality upgrades (e.g. hydrogen peroxide decontamination capabilities)
- Building friendly design with unique features to simplify infrastructural requirements
- In-line self-cleaning filters to get rid of historical high maintenance static chamber floor screens
- Double emergency bars with self-releasing doors: safety is not an option!

### Greater performance and sustainability

- Less utility requirements: only cold water supply in steam heated units
- About 50l (13gal) of water consumption per a microbiologically-validated cycle with only 100ml (3,4oz) of detergent usage
- Fully certified and compliant with the latest guidelines (AK KAB and AAALAC requirements)







Tool-free  
self-cleaning filter  
to get rid of old-style  
high maintenance  
static chamber  
floor screens!

## ATLANTIS EASY

- Less than 10 minutes standard microbiologically validated washing cycle; up to 600 mice cages/hour
- Wide coverage oscillating arms technology featuring washing and rinsing complete separate circuits
- Atlantis EASY can be installed and operated between solid walls with complete frontal access for maintenance and service
- H<sub>2</sub>O<sub>2</sub> decontamination with external generator, AWS flushing and steam thermal disinfection available as options in day 1 or for future upgrades
- Quick lock kit for bottle washing capabilities

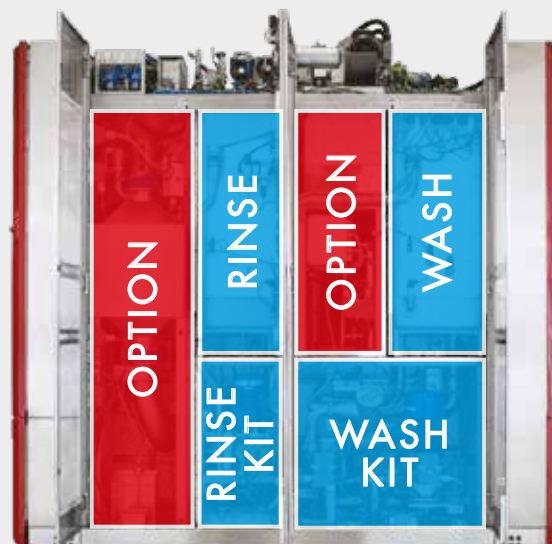




## ATLANTIS EVO

In addition to what offered by the EASY model, Atlantis EVO features:

- 6 minutes standard microbiologically validated washing cycle; up to 1000 mice cages/hour
- Only 100mm (4") depth pit
- Exhaust duct-free optional configuration with energy recovery system
- On-board H<sub>2</sub>O<sub>2</sub> generator with fast aeration and catalyzer for quick and self-contained decontamination cycles
- Hot air drying with heat-recovery system and automatic tilting floor feature
- Chamber illuminated by LED multicolor light to identify machine status



Modular design  
pre-arranged  
for future  
upgrades





User-friendly  
interface  
featuring  
remote connectivity  
for monitoring  
and controlling

TAKE A LOOK AT IWT  
DATACLICK BROCHURE  
TO FIND OUT MORE



## ATLANTIS EVO XL

- 20 minutes primate racks washing cycle
- Double washing tank standard design for alkaline and acid phases
- Increased chamber size for accommodating large animal cages and racks
- Wide coverage oscillating arms technology featuring additional vertical manifolds for excellent washing results even with odd shapes loads
- H<sub>2</sub>O<sub>2</sub> decontamination with external generator, AWS flushing and steam thermal disinfection







# CABINET WASHERS



OCEANUS



EASY 300



EASY 400



CALYPSO

IDEAL FOR PROCESSING CAGES AND THEIR ACCESSORIES, BOTTLES AND MISCELLANEOUS, EITHER AS A MAIN UNIT OR AS A PREMIUM BACKUP SOLUTION.

A PROVEN AND EFFECTIVE MODEL FOR AQUATICS APPLICATIONS IS NOW ALSO AVAILABLE TO AUTOMATIZE THE ALGAE AND BIOFILM REMOVAL.





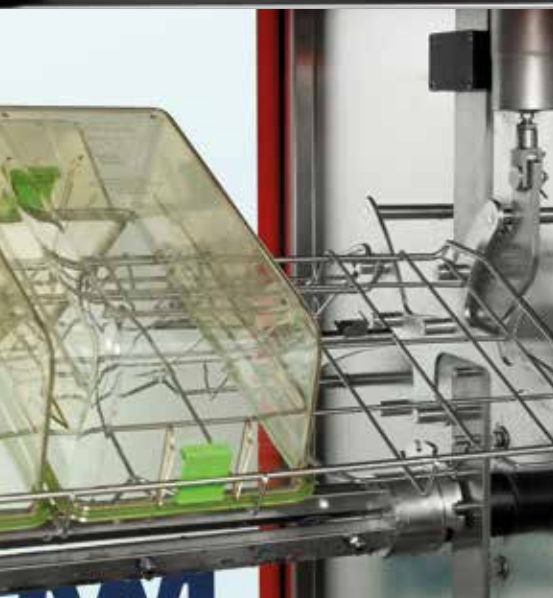
## OCEANUS

- Full glass doors with sash window system for over 40% operational space savings compared to traditional solutions
- Completely separate wash and rinse circuits and oscillating arms technology
- 5-minute microbiologically validated cycle to meet AK KAB and AAALAC requirements
- High through put with over 300 mice cages or 570 bottles washed per hour
- High capacity filtration system with direct operator access, no need to remove trays or shelves
- Full accessibility to any part of the machine for maintenance, including on-board detergent storage, to allow wall-to-wall installations
- No compressed air required, a fully electrically-driven unit, as an option the exhaust conditioning system requires no extract ductwork
- Polaris interface with remote connectivity and USB port for data gathering



New design to perfectly combine  
functionality, ergonomics  
and appeal!

- full glass doors with sash window system, for outstanding operational space savings
- enhanced visibility = full process control and communication through barriers



PATENTED PRESENTATION KIT TO ADAPT INCLINATION TO DIFFERENT LOADS: NO NEED OF ADDITIONAL FRAMES!



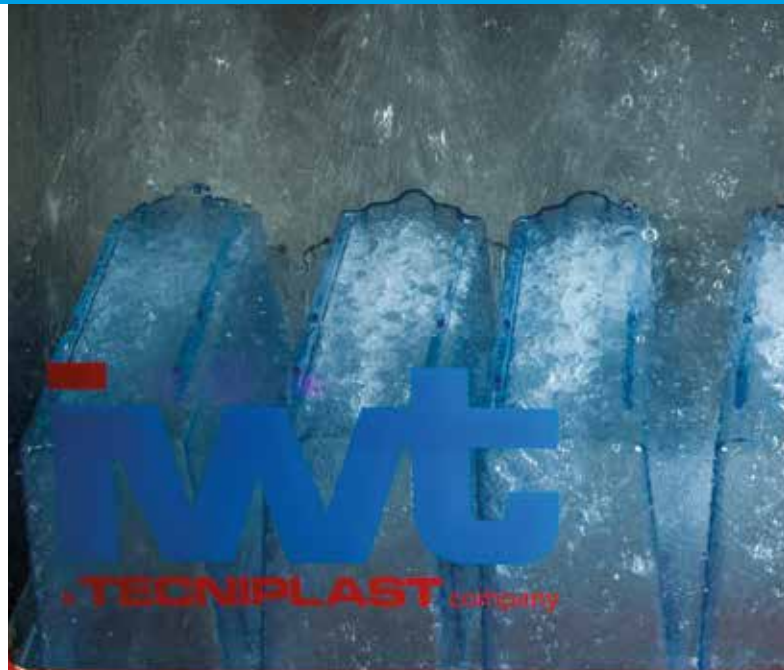


## EASY 300-400

- Flexible and compact cabinet washers ideal for small facilities or as backup units
- Space-saving and flexible design: reduced footprint to easily fit tight spaces
- Plug&Play system with easy maintenance and installation operations
- Washing efficiency with proper water flow, pressure, and coverage for a validated cleaning cycle
- Optimized throughput with two washing levels and rotating spray arms
- Pre-set cycles whose temperature parameters can be adjusted on-site at your needs
- Advanced operator ergonomics with easy access from the front side and sliding-off loading baskets
- High-level quality construction: entire systems made of AISI 304 stainless steel and plastic materials resistant to both working temperatures and chemical detergents
- Cost-effective and environmentally friendly: re-circulating washing cycle and reduced consumptions

Optimized throughput with two washing levels and rotating spray arms





Loading shelves with tool-free setting system to process a variety of aquatic accessories



## CALYPSO

- Algae and biofilm perfect removal via the exclusive IWT formula made of pressure, coverage and detergents mix
- Guarantee of precise cleaning thanks to multiple rinses including final rinse with RO water
- No need of tanks pre-treatment, automatic remove of possible diet residues during pre-wash phase
- Simplified utilities, no exhaust needed, only electricity and water required
- Simple loading/unloading due to the direct access to the chamber at an ergonomic height
- Fits tight spaces thanks to the reduced operational footprint:
  - No more unpleasant flip-over doors, sash window door design
  - On-board compartment for detergents storage
- Maximum flexibility to process a variety of aquatic accessories: loading shelves inclusive of tool-free setting system
- Polaris interface with remote connectivity and multiple cycles fully customizable







ARCADIA

# TUNNEL WASHERS

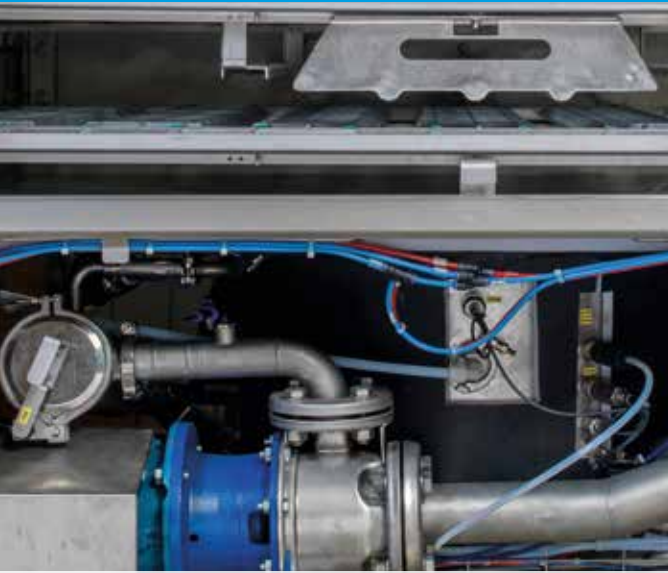


ARCADIA

ARCADIA TUNNEL WASHER ASSURES  
REMARKABLY HIGH THROUGHPUT AND  
EFFECTIVE  
SANITIZATION PERFORMANCE, WITH  
OUTSTANDING ENERGY  
AND WATER SAVINGS



# TUNNEL WASHERS



1

WASHING MODULE

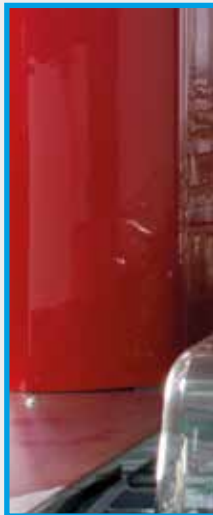


2

PRE-RINSING AND  
FINAL RINSING MODULE



Plastics  
mould-injected  
conveyor Belt  
which allows  
IVC tops inclined  
presentation





3 DRYING MODULE



## ARCADIA

- At least 15% footprint reduction versus comparable previous configurations
- Ergonomic loading height of 3' – 915mm
- Higher loading capacity given by a tunnel opening of 18" - 460mm
- EcoMode with only 440l – 116gal water consumption per hour (40% less than previous models)
- Up to 1250 Typell mice cages/hour
- Fully validated microbiological results compliant with AK-KAB and AAALAC requirements
- Heat-recovery system (optional) for extra energy efficiency
- Automatic slide-up service doors for full chambers accessibility
- Self-cleaning in-line filter with back-flush feature and automatic waste removal
- Polaris Interface with remote connectivity
- Full frontal maintenance for “against the wall” installation capability







# BOTTLE WASHERS



EASY 200



EASY EWF



E-LINE



S-LINE



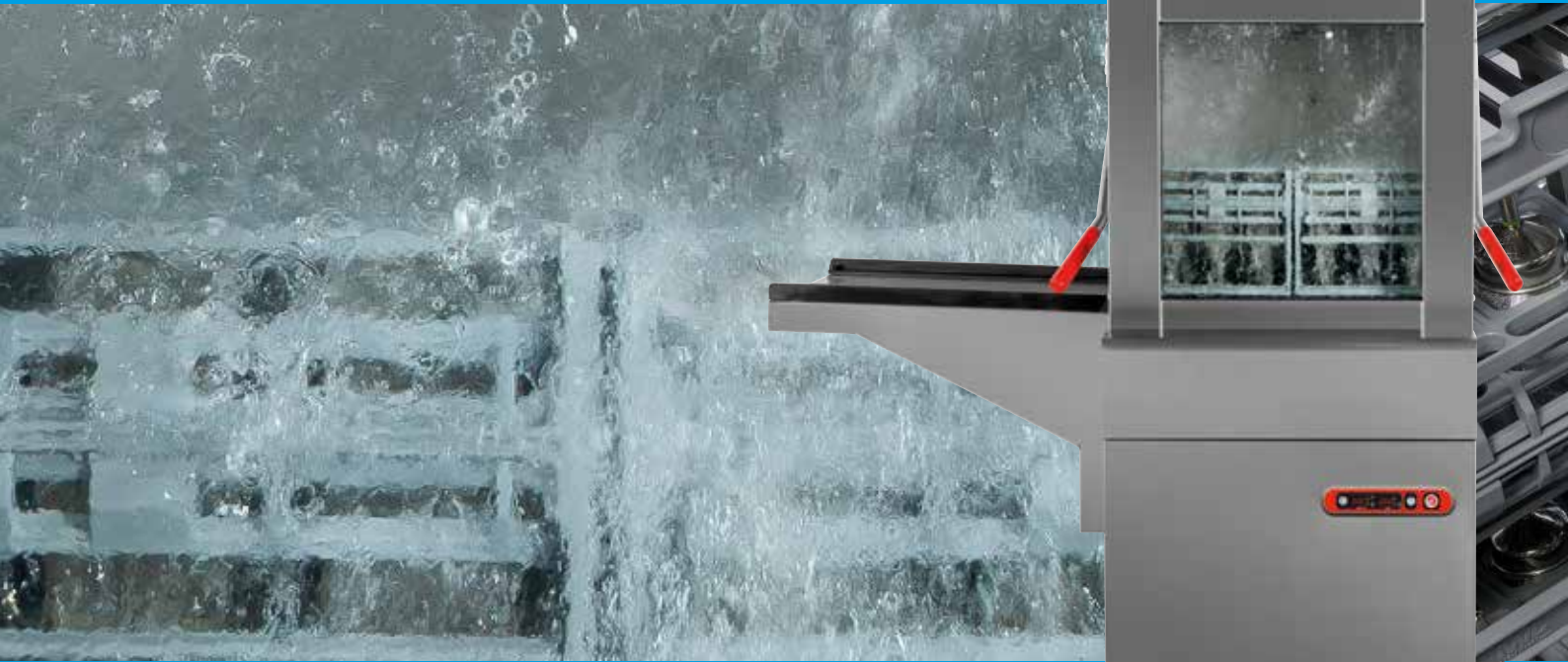
P-LINE

IWT HAS ALWAYS BEEN IN THE FOREFRONT OF INNOVATIONS AROUND BOTTLE PROCESSING.

ERGONOMICS, PROVEN PERFORMANCE, MODULAR AND FLEXIBLE DESIGN IN THE SMALLEST POSSIBLE FOOTPRINT ARE THE CORNERSTONES OF OUR SOLUTIONS.



# BOTTLE WASHERS



## EASY 200

- Space saving: electrically heated washer with compact dimensions
- Flexible design: suitable both for standalone and in-line pass-through applications featuring double manual sliding interlocked doors; ideal to be installed in existing layout with an adaptable workflow direction and configuration
- Full flexibility to be integrated with multiple tables for operators' ergonomic processing, including semi-automatic solutions for decapping and re-capping
- Washing efficiency: separated washing and rinsing circuits, throughput of 36 bottles/cycle (#2 crates/cycle)
- Washing efficacy: dedicated and fixed S/S nozzles system composed of #36 separated washing and rinsing jets
- Efficient process phases monitoring: tempered glass window installed on the bottle washer side
- Environmentally-friendly: re-circulating washing cycle with reduced water and detergent consumptions
- Heat recovery system to save up to 34% of energy during a single cleaning cycle
- Water discharge control system (temperature and pH control) for leaner integration with customers' main lines



Unique ergonomic design to reduce additional effort and fatigue during every repetitive operator task



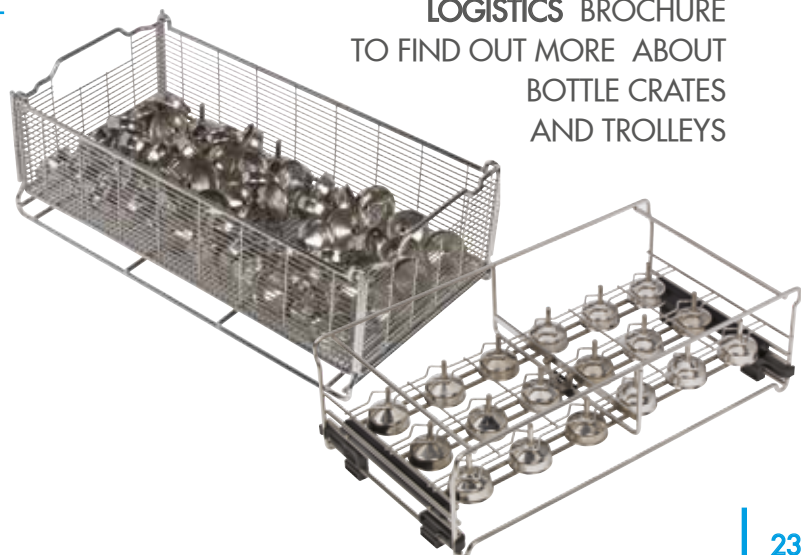
Details matter:  
an ergonomic bottle  
processing starts from  
the right accessories!



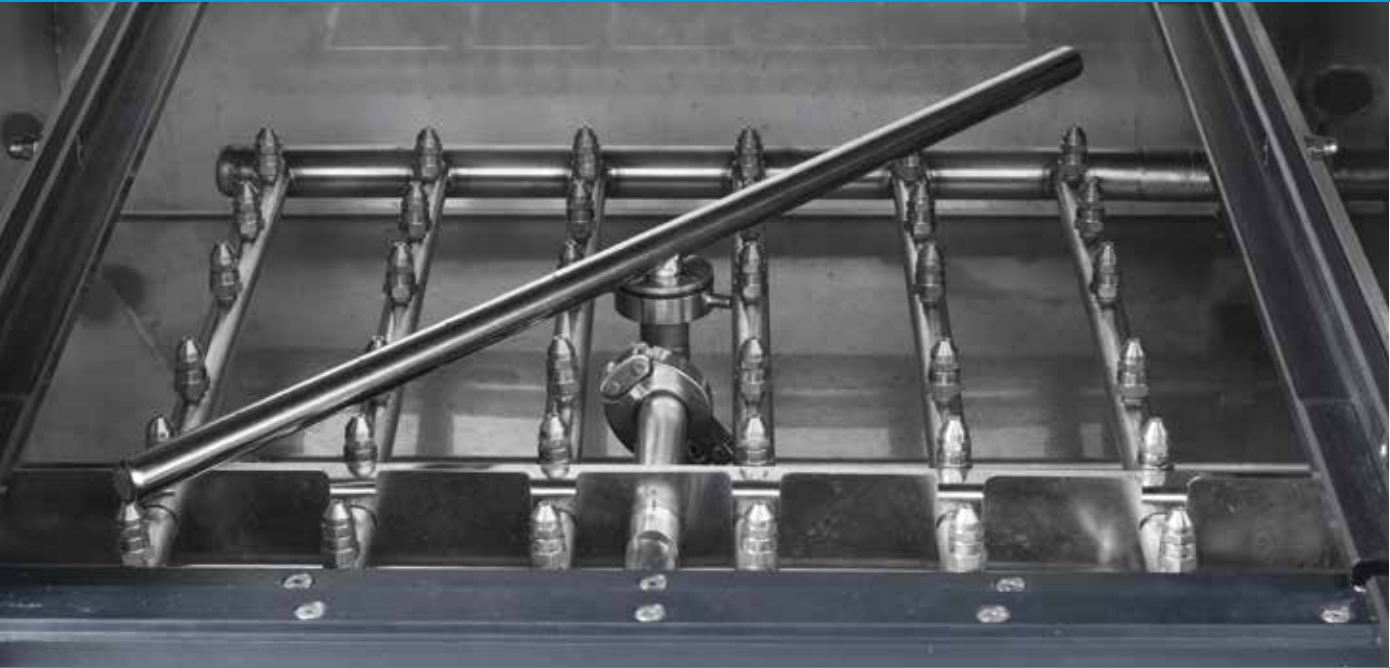
## EASY EWF

- A complete bottle handling system - emptying, washing and refilling - in 3 meters (10ft) only
- Easy EWF frees staff from repetitive and physical tasks typical of handling heavy bottle crates
- Flexible configurations with a wide range of accessories (e.g. Magic Decapper and Acidification Unit)
- The washer features 36 S/S fix nozzles ensuring that all internal bottle surfaces are thoroughly and consistently cleaned

TAKE A LOOK AT IWT  
**LOGISTICS** BROCHURE  
TO FIND OUT MORE ABOUT  
BOTTLE CRATES  
AND TROLLEYS







## E-LINE

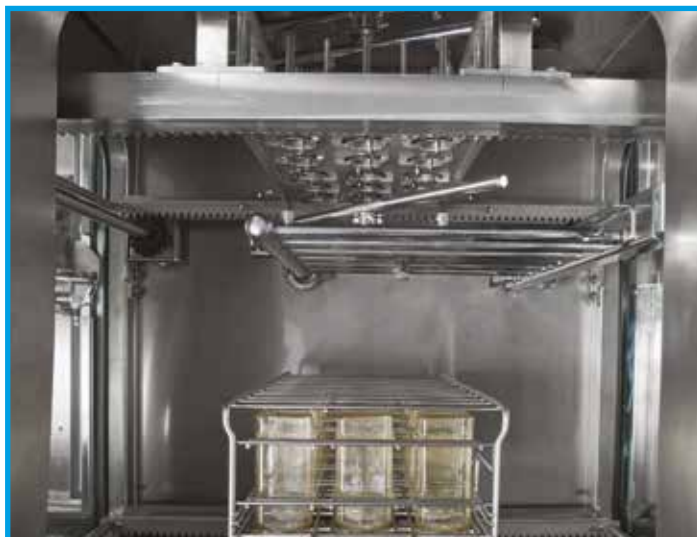
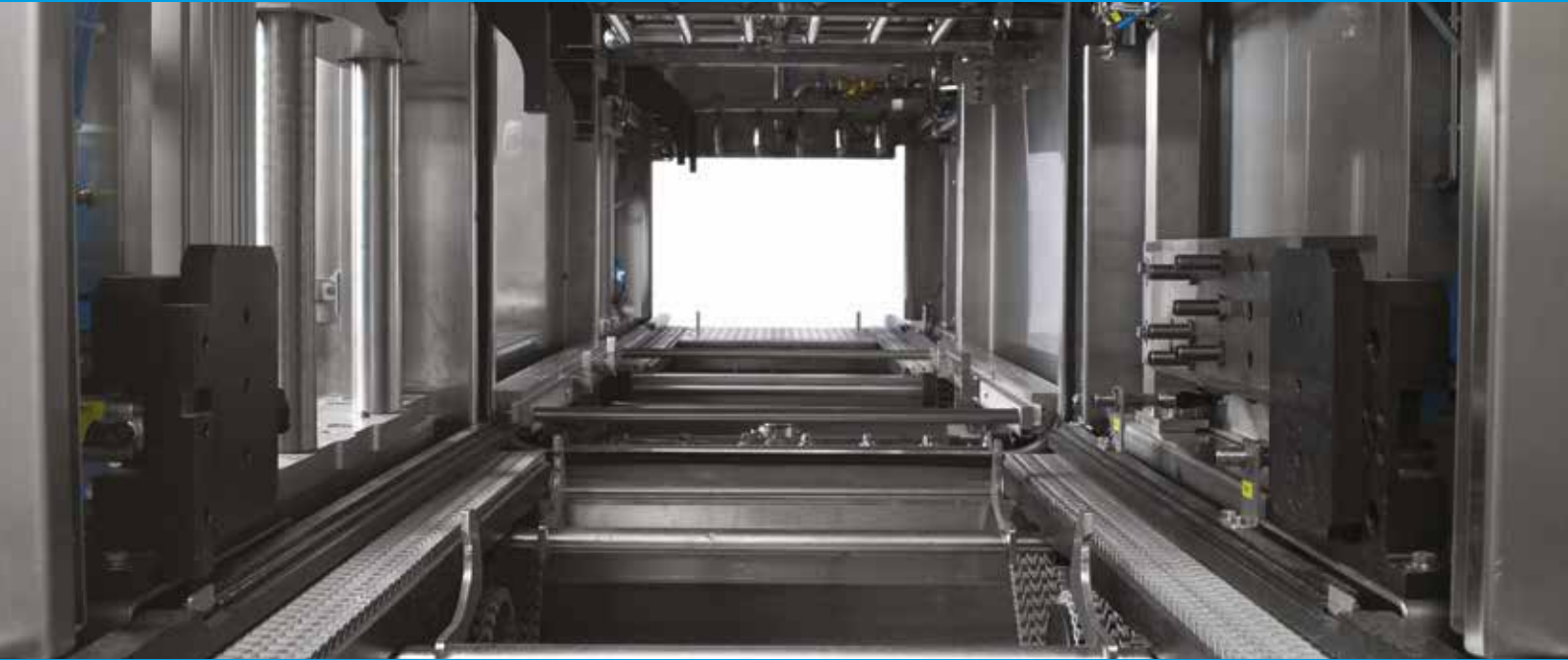
- Modular bottle processing system for emptying, decapping, washing, rinsing, refilling and recapping
- High throughput: 36 bottles/cycle in a 2min washing cycle
- Suitable for pass-through applications featuring double sliding glass doors
- Individual washing nozzle technology
- Optional semi-automated decapping and recapping solution available

## S-LINE

- Outstanding and proven performance with individual washing nozzle technology
- Automatic decapping system
- Automatic loading and unloading management of the washing module either for bottle crates and removed caps
- Loading and unloading motorized buffers
- Optional semi-automated recapping solution available







## P-LINE

- Fully automated and highly performing system from decapping to recapping in just 3.5m (11.5ft)
- Both bottles and caps are washed and sanitized by means of individual washing nozzles for outstanding and proven performance
- 18 bottles and caps/cycle processed on two levels
- High throughput: up to 500 bottles and caps/hour
- Just half liter (17oz) of water per bottle/cycle

What about automatizing even the loading and unloading of the transport trolley?

TAKE A LOOK AT IWT  
AUTOMATION BROCHURE  
TO FIND OUT MORE



- Fully certified and compliant with the latest guidelines (AK KAB and AAALAC requirements)
- Motorized buffers to enhance system autonomy or robotic system (Poseidon) to fully automate the transport trolley loading and unloading operations
- Automatic refilling module to be used after autoclave barrier to reduce decontamination process consumptions and cycle time
- Suitable for bottles from 260ml to 700ml
- BC-Matic and BC-Plast bottle crates with embedded lid and drawer style transport trolleys for easy bottle handling
- Bottles and, above all, caps are never touched by operators for the whole process duration





**COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =**

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