

## Equipment and solutions for washing and decontamination

of animal housing, feeding bottles and fish tanks



The most comprehensive range in the market  
designed to meet diverse customer needs.



## The most comprehensive range in the market

Steelco washers for lifescience applications are at the forefront of knowledge and research.

Steelco equipment is chosen globally by customers who want the best in ergonomics, safety, productivity, automation, high throughput, usability, reliability, traceability, allergen protection, operator safety, quality design, space - time - water - energy saving capabilities.

Our comprehensive range includes:

**Cabinet washers**  
**Tunnel washer**  
**Bedding systems**

**Feeding bottle treatment**  
**Controlled environment**



Steelco provides customized product solutions and project management support to fulfill any client needs.

Steelco washing systems provide validated results in standard products and patented technical solutions in customized machines.

### Made to last!



*Washing chamber  
made of s.s. AISI 316L*

**AISI  
316L**





## AC 7500 - AC 8500

### Cage and rack washer range



The Steelco AC 7500 and AC 8500 series cage and rack washers are **heavy duty, large capacity, hydro-spray washers** specifically designed to support the throughput of medium and large size facilities.

#### Separate wash and rinse circuits



#### Multistage water filtering system



Self-cleaning filter

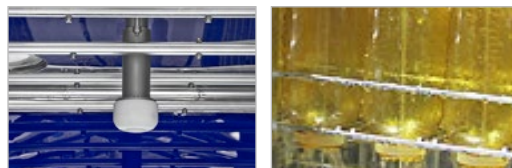


The wide range of solutions available matches any load **capacity, dimension and layout configuration** need.

- High productivity
- Flexibility in cycle setting
- Low water and energy consumption
- Hinged (AC 7500) or sliding door (AC 8500) models
- Manifold system for trolley docking
- Aquatic tank cycle option

Running cost saving of up to 95% compare to conventional design.

#### Manifold system option



Manifold system allows the use of injection washing racks for animal feeding bottles

#### Chamber sealing for decontamination process



Fully sealed chamber suitable for decontamination purposes:

- Hydrogen peroxide vapour
- Chemical fogging
- Steam sanitization

## NHP option

Heavy duty, large capacity, hydro-spray washer specifically designed to support the throughput of large animal cages and racks in medium and large size facilities.

The NHP option is equipped as standard with **3 pre heating water tanks and 2 dosing pumps** resulting in great flexibility in cycle setting.

Inspection window in the inner side of the door is protected from the load.



Multiple horizontally and vertically mounted oscillating arms equipped with stainless steel spraying nozzles.

## AC 1200 - AC 1300 - AC 1400

Animal feeding bottle, animal cage and fish tank



- Independent washing/rinsing system
- Multistage water filtering system, with self-cleaning filter
- Single door and pass-through versions available
- High capacity cabinet for detergents
- Easy access to service components

### Chamber dimensions

#### AC 1200

W 765 x D 900 (970<sup>1</sup>) x H 1130 mm  
W 30.12 x D 35.43 (38.19<sup>1</sup>) x H 44.49 inches

#### AC 1300

W 1550 x D 730 (800<sup>1</sup>) x H 1130 mm  
W 61.02 x D 28.74 (31.50<sup>1</sup>) x H 44.49 inches

#### AC 1400

W 1550 x D 900 (970<sup>1</sup>) x H 1130 mm  
W 61.02 x D 35.43 (38.19<sup>1</sup>) x H 44.49 inches

<sup>1</sup> only for double door version



### Aquatic Tank Processing

*The specialized version and process to ensure the elimination of any residual biofilm and algae left in aquatic tanks.*



## MITO AC 3500

automated tunnel washer



### Water and energy conservation

Final rinse water (4) is recycled into pre-rinse (3) and from pre-rinse into pre-wash (1)

### Phase cycle:

- 1) pre-wash
- 2) chemical wash
- 3) pre-rinse
- 4) final fresh hot water rinse
- 5) hot air drying system

- High productivity
- Multiple chamber modular system for integrated and flexible solutions
- Step or continuous operation versions
- 900mm/35.43", 1100mm/43.31" or 1200mm/47.24" belt width version
- Visual inspection of each chamber
- Suitable for integration with robotic technology
- Water filtering system with easy maintenance





## Bedding system for animal cages

A full range of devices for bedding management, characterized by:

- Ergonomy
- Operator safety
- Allergene containment
- Suitable for multiple bedding types



### Bedding dispenser mobile unit



### Dumping stations range



**with shredder**  
for vacuum system  
connection

**Steam sterilization autoclaves, Steelco VS L range**  
new Steelco equipments dedicated to scientific and research laboratories

## MITO FB COMBI

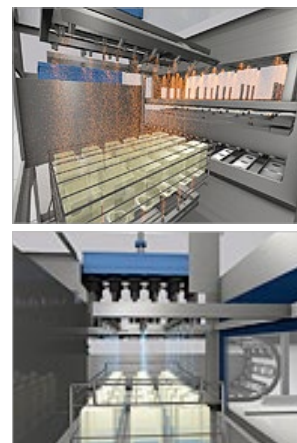
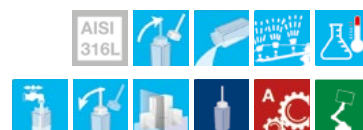
Automated feeding bottles washing system



**Decapping, emptying, washing,  
sanitizing, filling and recapping:**  
*all in one solution within the smallest footprint.*

- **Over 1080 bottles processed per hour**
- **Fully automated.** Compatible with robotic loading and unloading systems
- **Compact solution.** Less than 4 m<sup>2</sup> footprint

**Washer dimensions (WxDxH)**  
mm 3400/1150/2450 - inches 133,8/45,3/96,5



## MITO PT

automatic pass-through feeding bottle washers



- **Fully automatic process**
- **High productivity** up to 30 crates per hour
- **Suitable for pass-through applications**
- **Separate washing and rinsing circuits**
- **Individual nozzles for full bottle coverage**



Easy integration with de-capping  
and re-capping modules

## De-Capper module



**Modular concept units** for the automatic **de-capping** or **filling and recapping** of animal drinking bottles.

- **Easy integration** into existing washing areas.
- **Reduction of repetitive manual actions** and handling of heavy loads
- **High productivity**, up to 60 crates per hour

## Re-Capper module



## MITO FBS

semiautomatic feeding bottle washer  
with integrated filling system

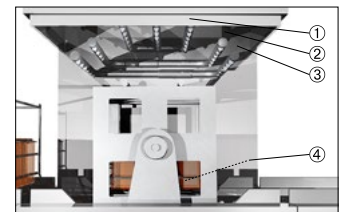


"in line" configurations: manual de-capper,  
**ultrasonic bath** for cap treatment, dripping station

**All in one bottle treatment solution:**

- Patented rotating system for the automatic **emptying, washing, rinsing and filling** of bottles
- **1x18 bottle crate per cycle**
- Independent washing and rinsing system
- Full bottle coverage with individual nozzles
- Easy access to the water filtration system

**The core of the system**



Water distribution system:

- ① filling system
- ② top rinsing system
- ③ washing system
- ④ bottom rinsing system



## MITO 2B

semiautomatic feeding bottle washer

- **2x18 bottle crates per cycle**
- **Easy integration with:** loading and unloading tables, ultrasonic cap treatment, filling modules
- Independent washing and rinsing system
- Full bottle coverage with individual nozzles



washing, rinsing and  
filling solution



## Water treatment solution for feeding bottles

### Filtration unit

for drinking water

High level water filtering system  
on a wall-mounted structure.

### MITO filling module

feeding bottle filling station

Filling module for one or two bottle  
crates. This module can be manually  
loaded or automatically conveyed.



## UC 300 - UC 400

ultrasonic cleaning system

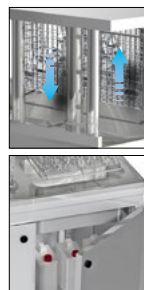


### The speed and effectiveness of ultrasonic cleaning power.

- **Capacity** 1 caps crate for each tank.
- Fully automatic process.
- Complete cycle control: phases, times, chemical dosing, ultrasonic power.
- Underbench storage for chemicals.



Pneumatic sink and lift of the loads



## Decontamination lock

Multiple decontamination method chamber



Steelco decontamination lock is an interlocking door chamber that can be used with multiple decontamination methods.

- Suitable for any type of existing Vapor Hydrogen Peroxide Generator
- Access doors equipped with two independent integral inflatable gaskets, with two separately controlled independent gaskets
- Integrated or external gas generators



Exclusive design door with independent inflatable double gaskets

## Function legend:



washing chamber



washing



sanitization by rinsing at 85°C - 185°F



decontamination



ultrasonic cleaning



hot air drying



pass through safe barrier



de-capping



emptying



filling



re-capping



disposal



dispensing

machine main functions



animal cages - fish tanks



animal cages - fish tanks lids, components and other smallware



feeding bottles



trolleys/pallets

dedicated to



fully automatic



semi automatic



manual

operating mode



productive or functionality upgrade with modules



productive upgrade with robotized or automated loading - unloading

available upgrades

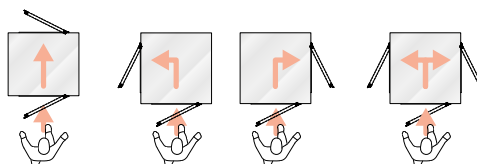
## AS 1000

air showers



Steelco Air Shower AS 1000 is designed to remove surface contamination from personnel prior entering a lower level contaminated environment.

Different available configurations with left or right door openings: straight through passage, angle passage left or right, T passage (3 door passage)





**Miele** Group Member

ARES - flexible endoscope automated reprocessing system



Dental washer disinfectors

Flusher disinfectors

Steam sterilizing autoclaves



Washer disinfectors for central of sterilization departments

Laboratory glassware washer disinfectors



Washing and sterilizing systems for life science and pharmaceutical applications

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