

**DETACH has achieved Worldwide Leadership** in the scientific research market by understanding our customer's requirements and by providing the highest quality, most productive systems in the industry.

Our integrated system of products, services, and technologies provides solutions for the customer by minimizing contamination risks, improving operational efficiencies, containing costs, and improving workplace environmental conditions.

**DETACH is the first name** in the laboratory animal research, improving operator health, and optimizing facility productivity. Our many years of experi-

ence provide an efficient operation that facilitates thorough cleaning, sanitization, and drying of your laboratory animal caging systems. The DETACH System greatly improves work environment conditions by removing potentially harmful allergens and airborne contaminants and by reducing the risk of repetitive motion injuries.

**The Ymer System greatly improves work environment** conditions by removing potentially harmful allergens and airborne contaminants and by reducing the risk of repetitive motion injuries.

## Additional Systems and Support

**In addition to the innovative solutions that the DETACH System delivers, DETACH also provides you with an extensive offering of complementary products, systems, and services that allow you to take advantage of our integrated approach.**

### DETACH DYNAJET Cage and Rack Washing System

Designed and manufactured at our UK manufacturing facility, our range of cage and rack washers are designed for high capacity, efficient cleaning, sanitization, and drying of cages, racks, debris pans, feeder bottles, and other miscellaneous items used in the care of laboratory animals.

### DETACH Automated TW Cage and Bedding Processing System

Designed and manufactured in Sweden, DETACH provides a Tunnel Washer based automated system for the washing of cages, incl bedding management, used in the care of laboratory animals.

### Frej and Freja Bottle Processing Systems

Designed and manufactured in Sweden, DETACH provides a range of bottle processing equipment that is designed for semi automated or automated handling, de-capping, emptying, washing, filling and re-capping of feeder bottles and sipper tubes used in the care of laboratory animals.

### DETACH Vacuum System for Bedding Management

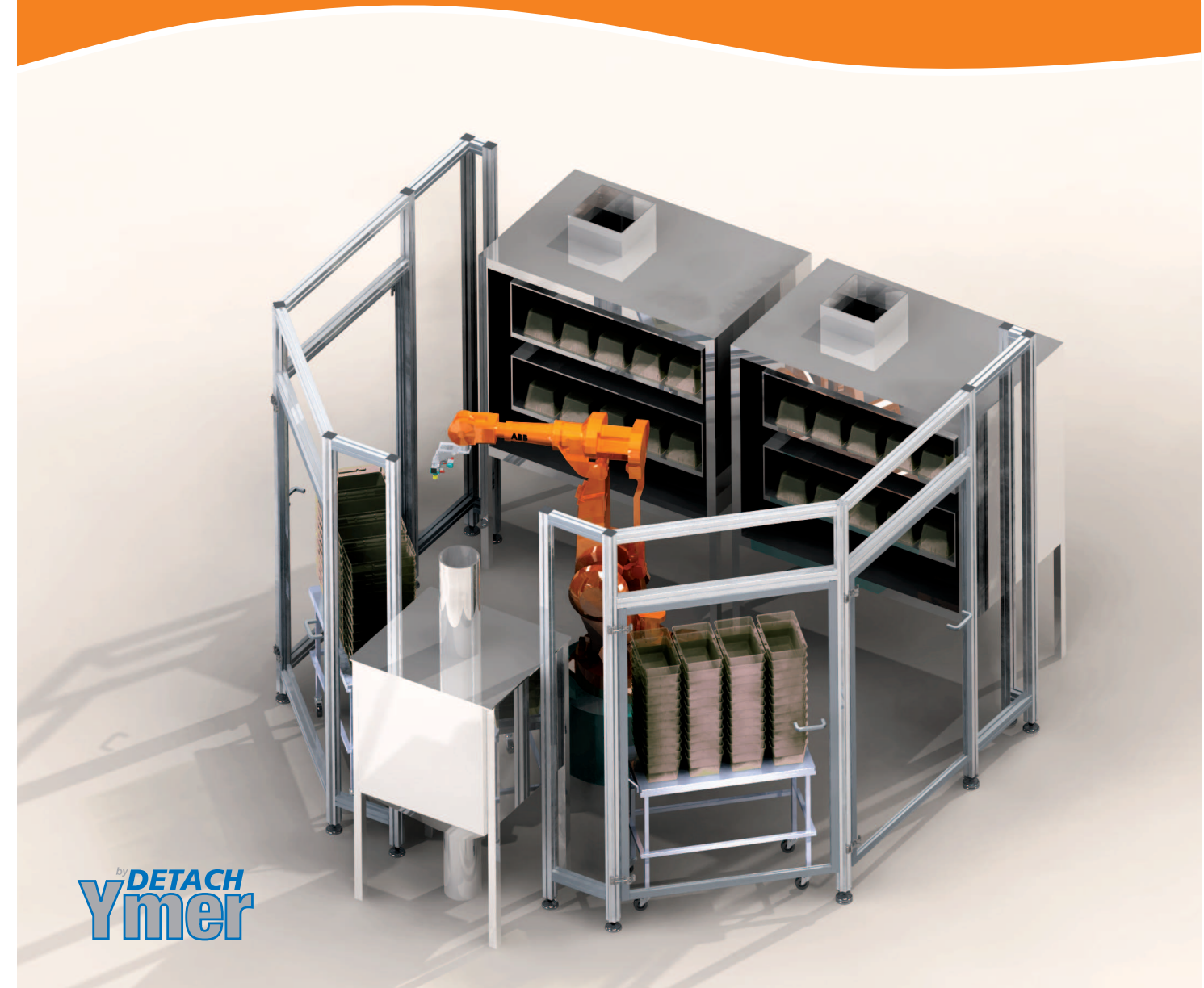
Designed and manufactured in Sweden, DETACH provides a range of bedding management equipment that is designed for manual or automated handling of soiled and clean bedding used in the care of laboratory animals.

### DETACH Service

Service and support is a very important part of the DETACH organization. Our personnel have built up strength and expert knowledge that has come from the continuous support of all our systems that are all over the world for over a decade.

DETACH operate excellent planned maintenance contracts covering all areas.

# Ymer Automated Cage CW and Bedding Processing System



Taking cage washing and bedding management further on.

**DETACH** 

The Original - since 1996

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**DETACH** 

The Original - since 1996

# Ymer Automated Cage CW and Bedding Processing System

- Cabinet Cage Washer
- Robot
- Bedding Dump Station
- Cage Load Area
- Safety Cell

When we first introduced robotic handling to the scientific research market back in 1996, who could have thought we would be changing the view of cage cleaning and bedding management of a whole community?

The fact is, *we were pioneers*, and together with our first clients we created the future we see today. That is why we state, with pride: *The original – since 1996.*

After the introduction we have installed more than 70 robots to handle your cage washing and bedding processing, helping you take benefit of the superior environment and productivity the automated systems bring. In addition to this we have installed over 100 vacuum systems to simplify the bedding management in your facilities as well as improve the safety and allergen protection.

During this period DETACH has achieved worldwide leadership in automation of the cage washing and bedding processing by working very closely with our clients and understanding and adopting to their unique requirements. As we continue to develop our systems and meeting new demands we have looked at our experience as pioneers and, in combination with what you value the most when developing the best system solution for your needs, we have established The DETACH Commitment.

We bring you:

#### Dedication

DETACH specializes in bedding management, cage washing and automation for the laboratory animal research market. All our focus is directed to this area.

#### Innovation

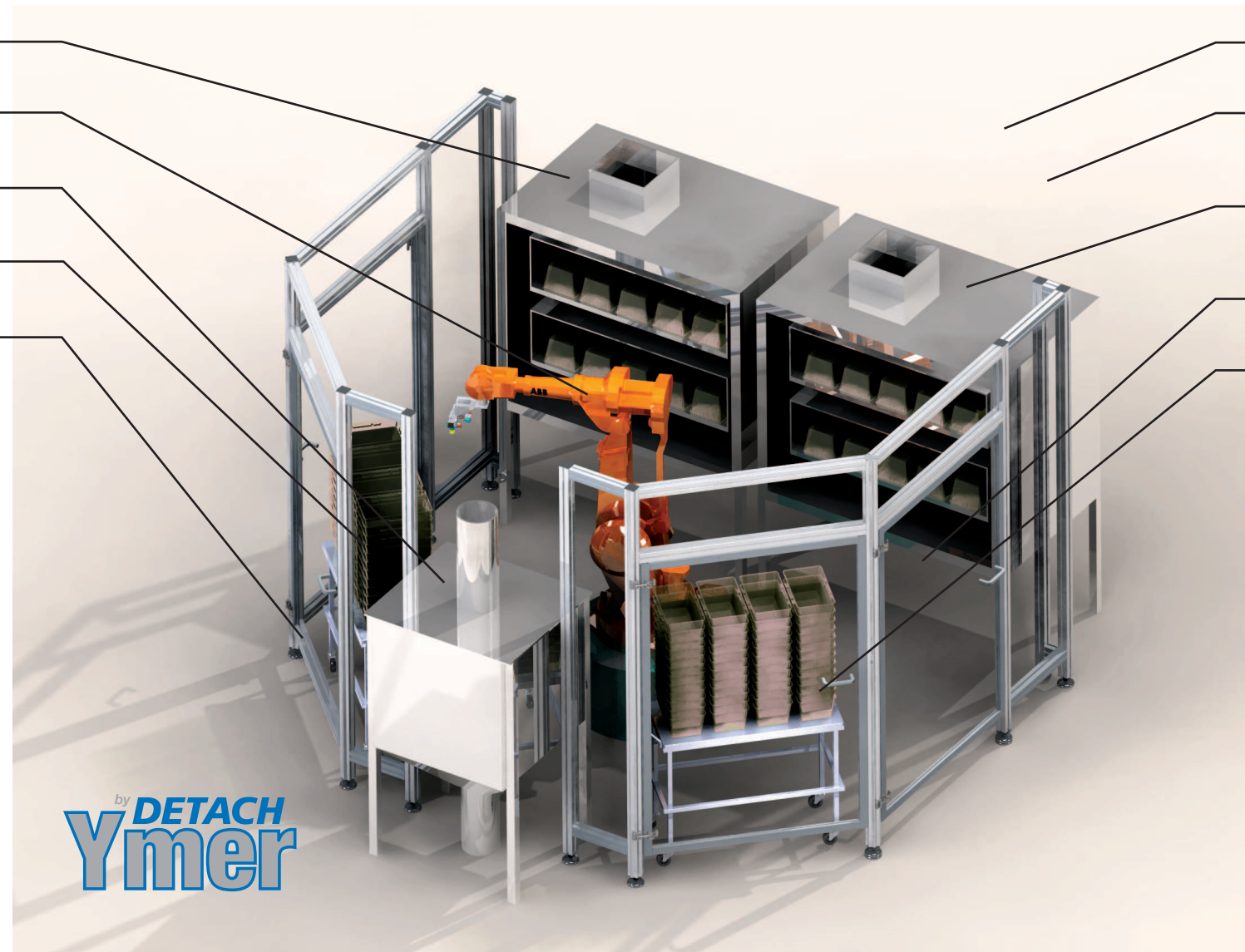
Animal care takes place within a multifaceted, dynamic environment where technical evolution is constant. An innovative and open minded approach is necessary as we face this evolution. DETACH takes pride in realizing new thoughts for improvement together with our clients.

#### Independency

DETACH is a dedicated engineering company with no commercial links to any caging manufacturer. This guarantees complete impartiality and we work with any manufacturers cages. This also ensures that over the entire 20 years plus lifetime of the system you will be able to take advantage of any technical or cost innovations that arise with regard to cage design from different caging manufacturers.

#### Experience & Knowledge

Experience is defined as “accumulated knowledge”. First DETACH System installed in 1996. As of today we have an installation base of 72 working robots in the US and Europe. More than a decade of experience and many millions of cages processed. **Knowledge accumulated!**



Bedding Dispenser (optional)

Clean Side Robot (optional)

Second cage washer for continuous output

Personnel Access Door

Cage Load Area

#### The operation is simple

Rodent cages with soiled bedding, for example, are manually stacked on pallets. These pallets are then placed in the soiled side area and the system started. The Ymer robot will individually lift the cage from the stack, empty the contents of the cage into the DETACH bedding Dump Station and position the cage in the washer. The robot will continue to do this until the washer has completed its load capacity and then the washer door will close. The washer will then come into cycle, washing and rinsing the cages thoroughly. At the end of the washing cycle, the washer door will open and the robot removes the cages loading them onto the clean cage area. There is an option for a pass through system where cages can be removed with a second robot or by hand. A further option of a Bedding Dispenser to fill the cage with a preset amount of clean, dry bedding completes the system.

#### Operational Benefits

The value that Ymer delivers to our customers is easy to understand:

- Minimizes operator exposure to potentially harmful airborne allergens in the workplace. Reported reduction 99 %.
- Is a uniquely automated system - there are no racks to be loaded full of dirty cages as in other cabinet washing systems.
- Takes up 14.5 m2 of floor space.
- Greatly reduces the risk of repetitive motion injuries.
- Creates a clean and quiet working environment.
- Maximizes efficiency of facility and staff.

#### System Designs and Throughput

Ymer is carefully designed to accommodate the unique requirements of each client and facility, and range from simple systems with manual operation to fully automated installations that utilize the power of robotics. These modular systems are flexible, adaptable, and can be easily expanded.

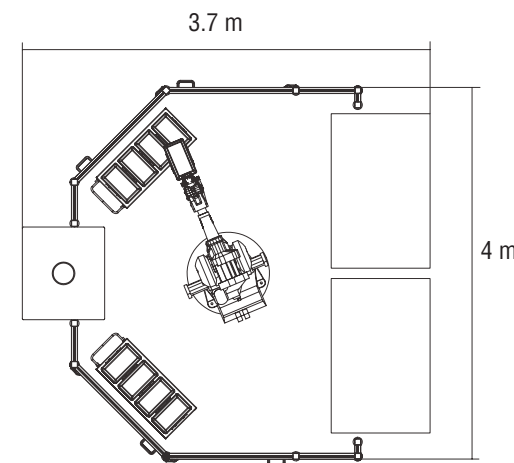
The Ymer Automated Cage CW and Bedding Processing System can consist of:

- Robotic Cage Handling System.
- Bedding Disposal and Airborne Contaminant Removal System.
- Bedding Dispensing System.
- Automated Cage Cabinet Washing System.
- Cage Logistics System.

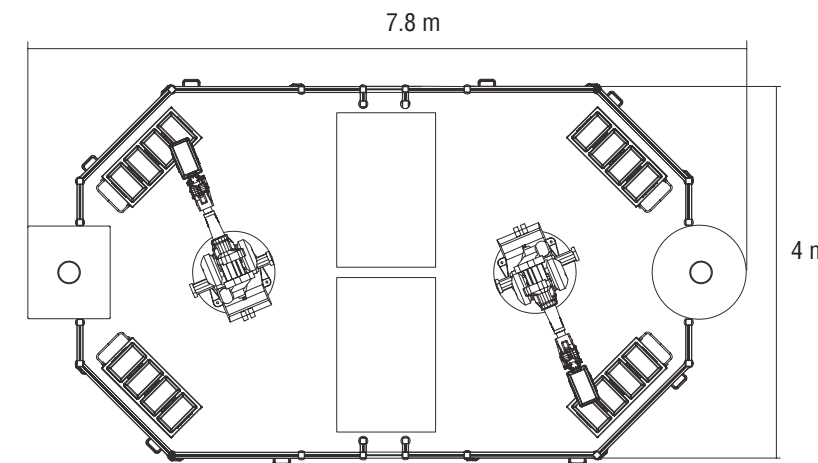
Any combination of these modular systems can be integrated to provide you with an automated cage processing system. The Ymer System can be customized with many optional components to maximize the efficiency of your specific operation. *The Ymer System as of today can be designed to handle up to 300 cages per hour.*

## A VARIETY OF LAYOUT OPTIONS

The Ymer System is designed to process any type of cage. Ymer System is safe, productive and provides fully automated emptying and washing covering only 14.5 m2 of floor space.



Single Stage Ymer System



Two Stage Ymer System