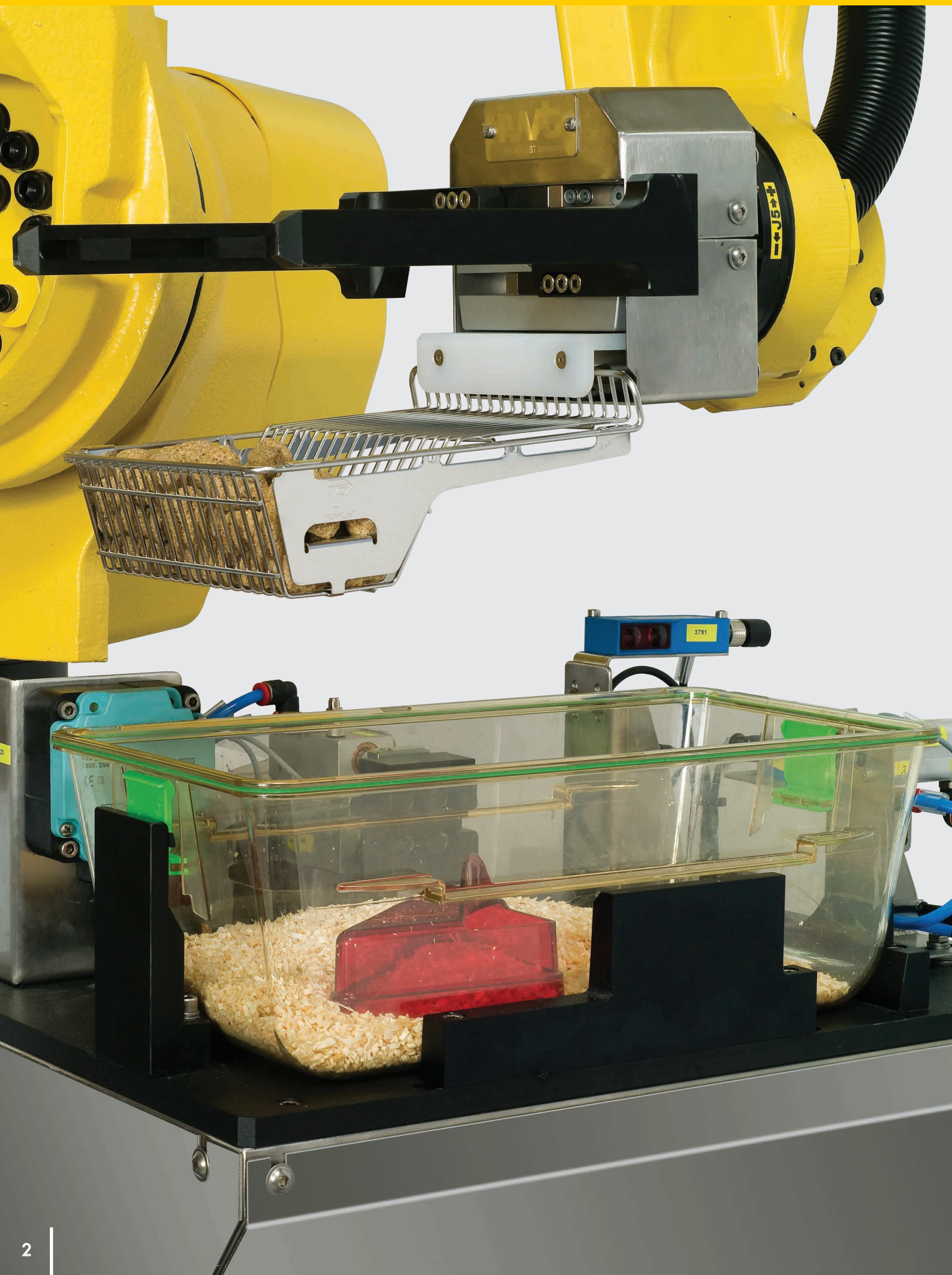
a TECNIPLAST company

BOTTLE & CAGE AUTOMATIONS

AUTOMATION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MODULARITY, FLEXIBILITY, ERGONOMICS, OPERATOR PROTECTION AND COST EFFECTIVENESS: THESE ARE THE KEY FACTORS THAT DRIVE OUR DESIGN, TO PROVIDE CUSTOMERS WITH CUTTING-EDGE AUTOMATED SOLUTIONS

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

SINCE 1999 IWT HAS BEEN DESIGNING, DEVELOPING AND ENGINEERING AUTOMATION SOLUTIONS FOR THE LABORATORY ANIMAL INDUSTRY. TODAY, WITH OVER 100 ROBOTS INSTALLED IN THE MOST PRESTIGIOUS VIVARIUM WORLDWIDE, IWT IS PROUD TO PROVIDE YOU WITH THE MOST COMPREHENSIVE PORTFOLIO OF AUTOMATED SOLUTIONS ON THE MARKET. OUR TEAM OF SPECIALISTS AND ENGINEERS IS AVAILABLE TO SUPPORT YOU FROM PROJECT MANAGEMENT TO INSTALLATION, FROM COMMISIONING TO TRAINING AND MAINTENANCE.

OUR COMPLEMENTARY SERVICES INCLUDE:

- **3D DESIGN** - WE MODEL EVERY SINGLE COMPONENT, MAKING SURE YOUR UNIQUE SYSTEM EXCEEDS YOUR REUIREMENTS
- **3D SIMULATION** OF ROBOTIC CELLS AND SOFTWARE
- **INTEGRATION AND INTERNAL COMMISSIONING** - SYSTEMS ARE ASSEMBLED AND INTERNALLY TESTED TO ENSURE A 100% CUSTOMER APPROVAL RATE, WHICH RESULTS IN QUICKER INSTALLATOIN AND HANDOVERS
- **THROUGHPUT AND ROI ANALYSIS** TO SUPPORT THE CLIENTS IN BUDGET FUNDING AND PROJECT JUSTIFICATIONS

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FULLY AUTOMATED BOTTLE PROCESSING

POSEIDON

BOTTLES REQUIRE FAST TURNOVER: MODERN FACILITIES NEED EQUIPMENT THAT FEATURE A SMALL FOOTPRINT, HIGH THROUGHPUT, EXCEPTIONAL WASHING PERFORMANCE AS WELL AS OUTSTANDINGLY ERGONOMIC WORKING CONDITIONS.

ALL THOSE CHALLANGES CAN BE OVERCOME WITH IWT POSEIDON SYSTEM.

IWT trolleys and carts have ergonomics at the heart of their design!

POSEIDON

Product features:

- Complete bottle automation starting from logistic trolley presentation
- Up to 500 bottles and 500 caps individually washed per hour
- Green Power technology for outstanding results with low energy consumption
- Robotic cell smaller than 3.7sqm (40 sqf)
- Total flexibility to process bottles up to 700ml

Process flow:

- Poseidon takes the crates from transport trolley and loads the P-Line automated bottle washer
- Bottles are then:
  - de-capped and emptied
  - washed
  - filled and re-capped
- Poseidon collects the clean crates and reloads transport trolleys

ARCADIA
GR900

PARTIAL

CAGE CHANGE

ARES

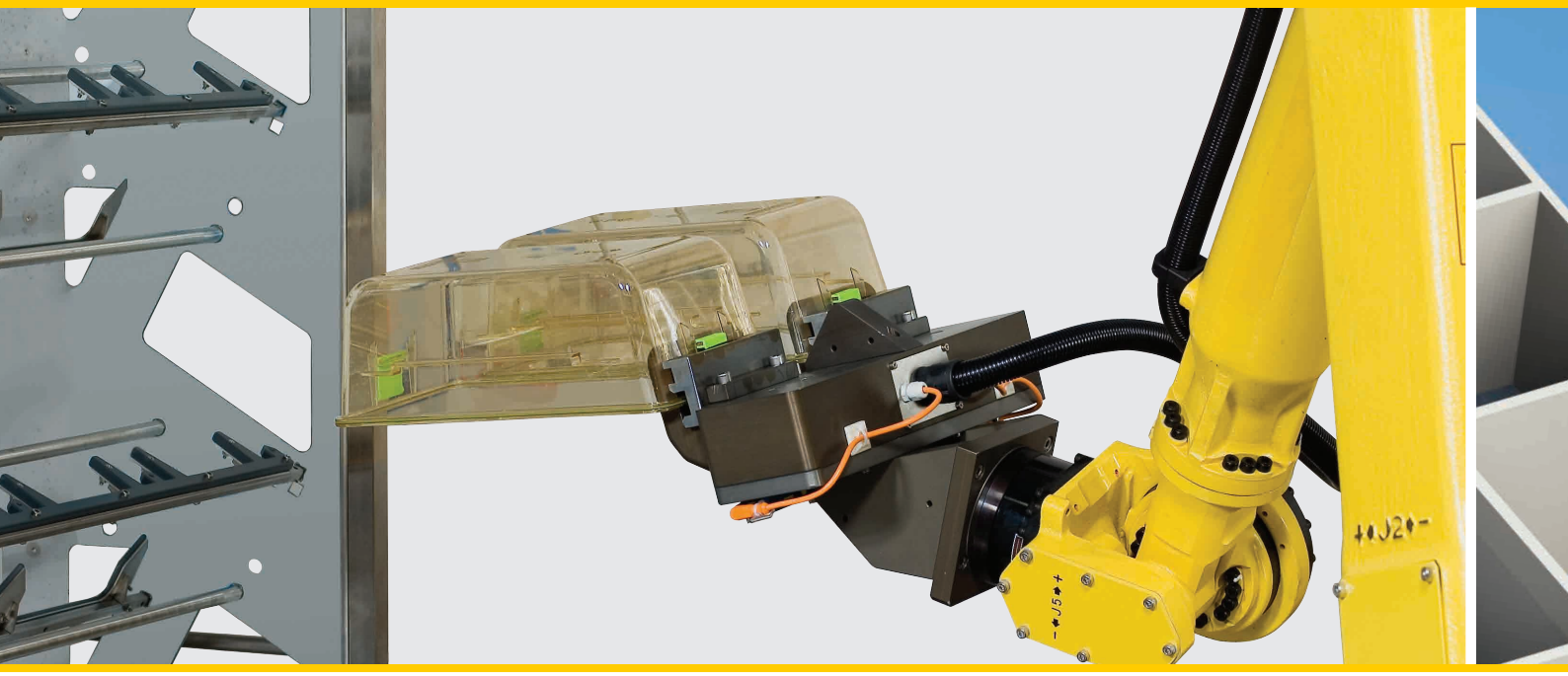
PEGASUS

IWT SOLUTIONS MEET ALL CUSTOMERS' NEEDS

ARES SYSTEM IS SPECIFICALLY DEVELOPED FOR THOSE FACILITIES PERFORMING PARTIAL CAGE CHANGE PROCEDURES AND LOOKING FOR AN AUTOMATED RACK WASHING SCENARIO.

PEGASUS SYSTEM IS CONCEIVED FOR FACILITIES PERFORMING PARTIAL CAGE CHANGE AND UTILIZING TUNNEL WASHERS.

PARTIAL CAGE CHANGE



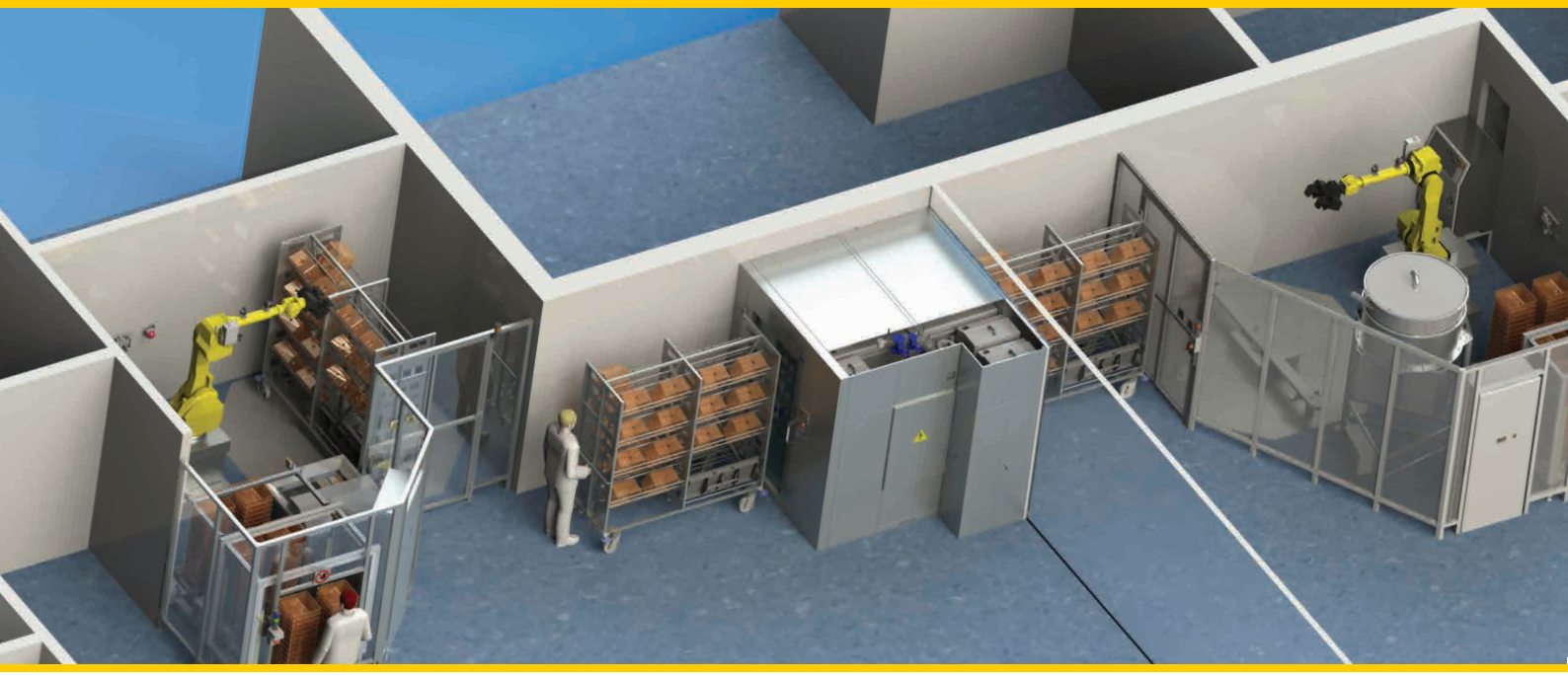
LOADING-UNLOADING CONVEYORS

ARES

FOR PARTIAL CAGE CHANGE AND RACK WASHER

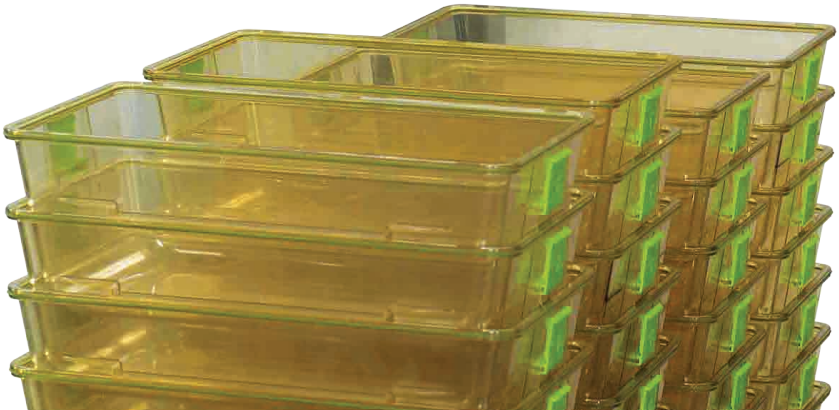
Product features:

- For small-medium size vivaria, existing or new, processing from 2,000 to 6,000 cages per week
- Robots take care of dirty and clean side operations: all hazardous activities can be avoided; operators just have to handle logistics and manage the system through the graphic, user-friendly interface
- The unique gripper design, simulating human hands, can manage all the standard rodent cages available on the market
- Two possible setups (BB and ST) to balance throughput and space requirements with available budgets. Different robot dimensions (from small to medium) and robotic cell footprints, from 12sqm (130sqf) to 20sqm (215sqf) for the solution that better suits your needs

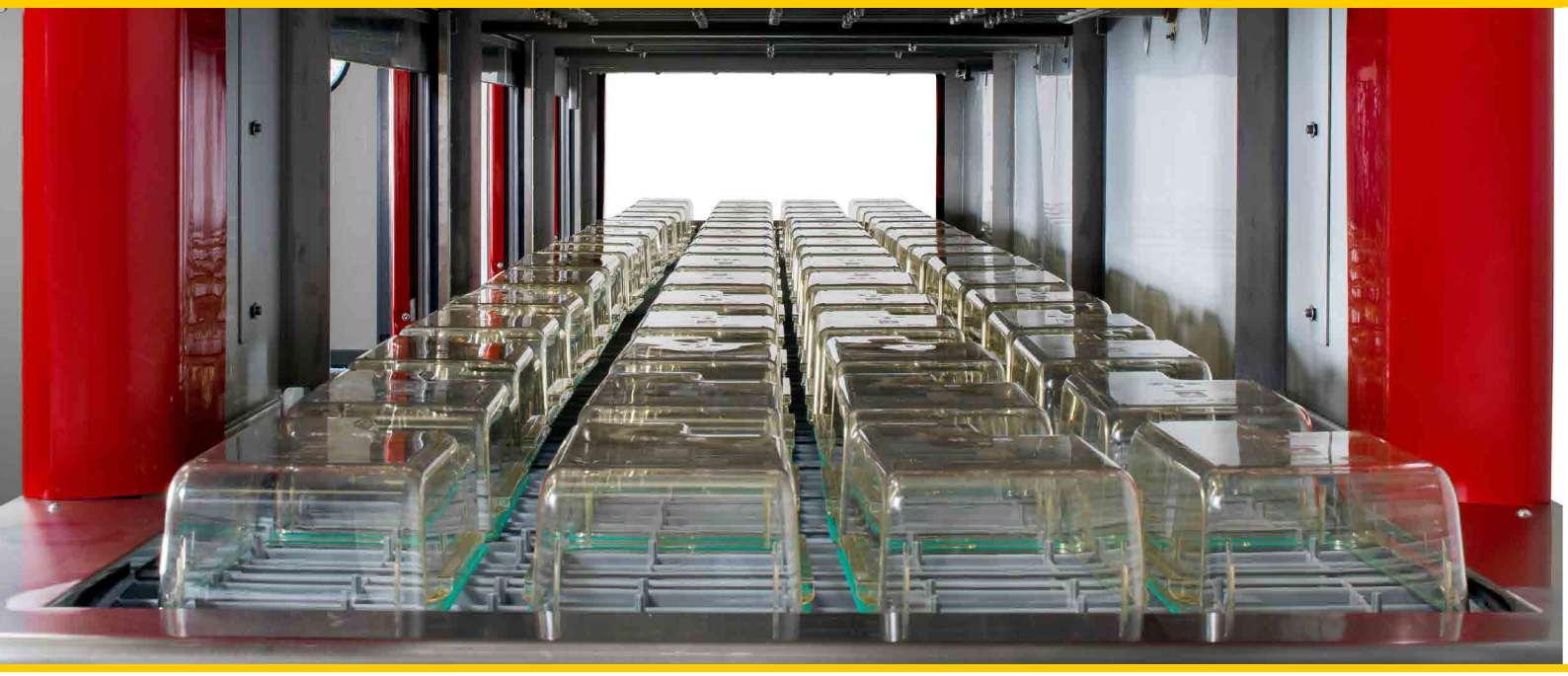


POLARIS OPERATOR INTERFACE

Tailor-made logistics to fit any standard cage type and washer chamber dimension to maximize throughput reducing storage footprint



PARTIAL CAGE CHANGE



IN-LINE DUMPING STATION

PEGASUS

FOR PARTIAL CAGE CHANGE AND TUNNEL WASHER

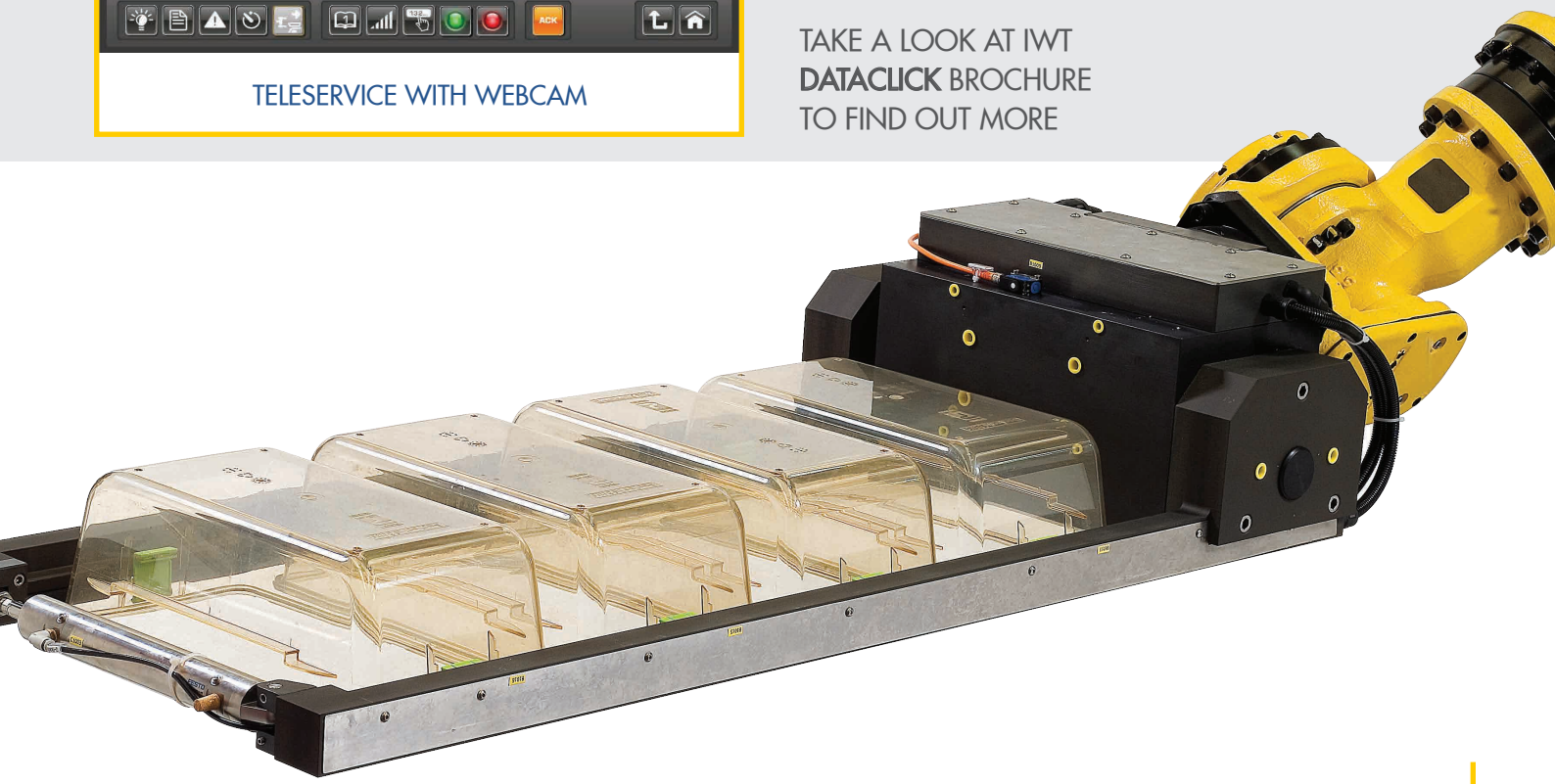
Product features:

- For existing or new medium-large size vivaria, processing from 4,000 to over 12,000 cages/week
- Combined with IWT ARCADIA Tunnel Washer, it takes care of the entire Dirty and Clean side process guaranteeing full system autonomy
- The Dirty side Pegasus only, integrated with new or existing tunnel washer regardless the manufacturer, is a really cost-effective solution
- Capable of processing all most common type of standard rodent cages available on the market. Miscellaneous baskets allow the washing of IVC tops and various items in an automatic way
- Eliminates the requirement for operators to undertake the most unpleasant and repetitive tasks reducing allergen exposure and enhancing operator ergonomics

TELESERVICE WITH WEBCAM

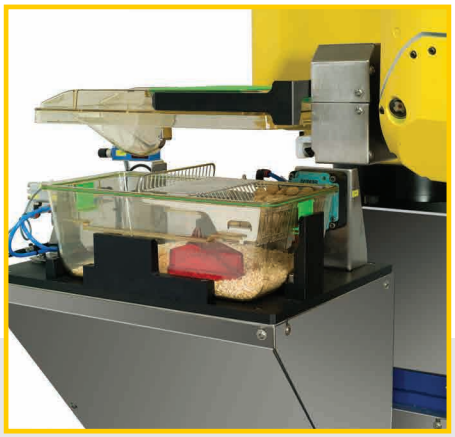
User-friendly interface featuring remote connectivity for monitoring and controlling

TAKE A LOOK AT IWT **DATACLICK** BROCHURE TO FIND OUT MORE



INTEGRAL

CAGE CHANGE



APOLLO

COSMOS

IWT SOLUTIONS ARE UNIQUE IN THE MARKET AND MEET ALL CUSTOMERS' NEEDS

APOLLO IS A PATENTED AUTOMATION SYSTEM DESIGNED FOR THOSE VIVARIA PERFORMING AN INTEGRAL CAGE CHANGE PROCEDURE AND UTILIZING A RACK WASHER.

COSMOS IS A PATENTED FULL AUTOMATION SYSTEM FOR TUNNEL WASHER APPLICATION IN THOSE FACILITIES WHERE INTEGRAL CAGE CHANGE IS PERFORMED.

INTEGRAL CAGE CHANGE

INTEGRAL CAGE HANDLING

Apollo is the first automated system in the industry to process IVC Cages in their integral setup: cage Base, wire Bar lid and top

APOLLO

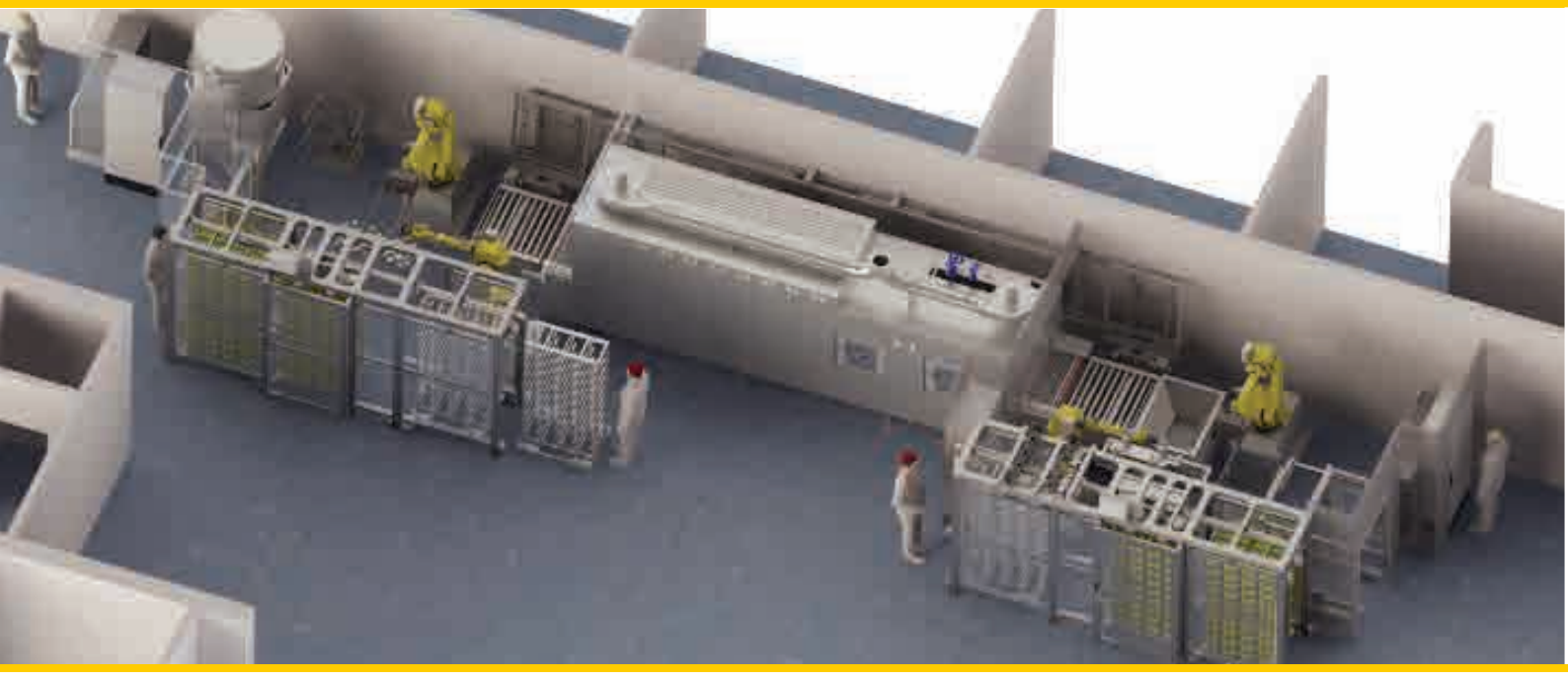
FOR INTEGRAL CAGE CHANGE
AND RACK WASHER

Product features:

- For existing or new small-medium size vivaria, processing from 2,000 to 5,000 integral cages per week
- Apollo prevents operators' exposure to allergens and avoids non-ergonomic daily operations
- Available in hybrid configuration to handle both integral cages or cage bases only

- Designed to automate the soil side of the washing area where the most hazardous tasks are performed. An automatic gripped change system allows the robot to handle different cage sizes
- Available in two standard configurations - BB and ST - with footprint is comparable to the space normally needed to perform manual operations (from 12sqm (130sqf) to 20sqm (215sqf)

INTEGRAL CAGE CHANGE



INTEGRAL CAGE HANDLING

COSMOS

FOR INTEGRAL CAGE CHANGE AND TUNNEL WASHER

Product features:

- For existing or new medium-large size animal facilities, processing from 4,000 to over 10,000 integral cages per week
- The system can manage IVC cages in their integral setup covering all the tasks needed both on soil and clean sides of the washing area; operators have just to feed the system with transport trolleys and recollect clean ones as output
- Designed to handle IVC latch-free cages
- Cosmos allows to automatically process also stacks or cage bases, for total flexibility
- Robotic cell footprint: around 25sqm (270sqf)
- Top level allergen containment
- Full process monitored via user-friendly interface

Different scraping solutions available for heavy soil

WASHING PRESENTATION PALLET

a TECNIPLAST company

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

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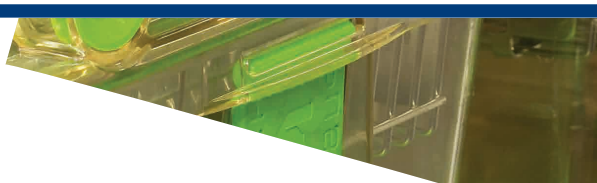
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