

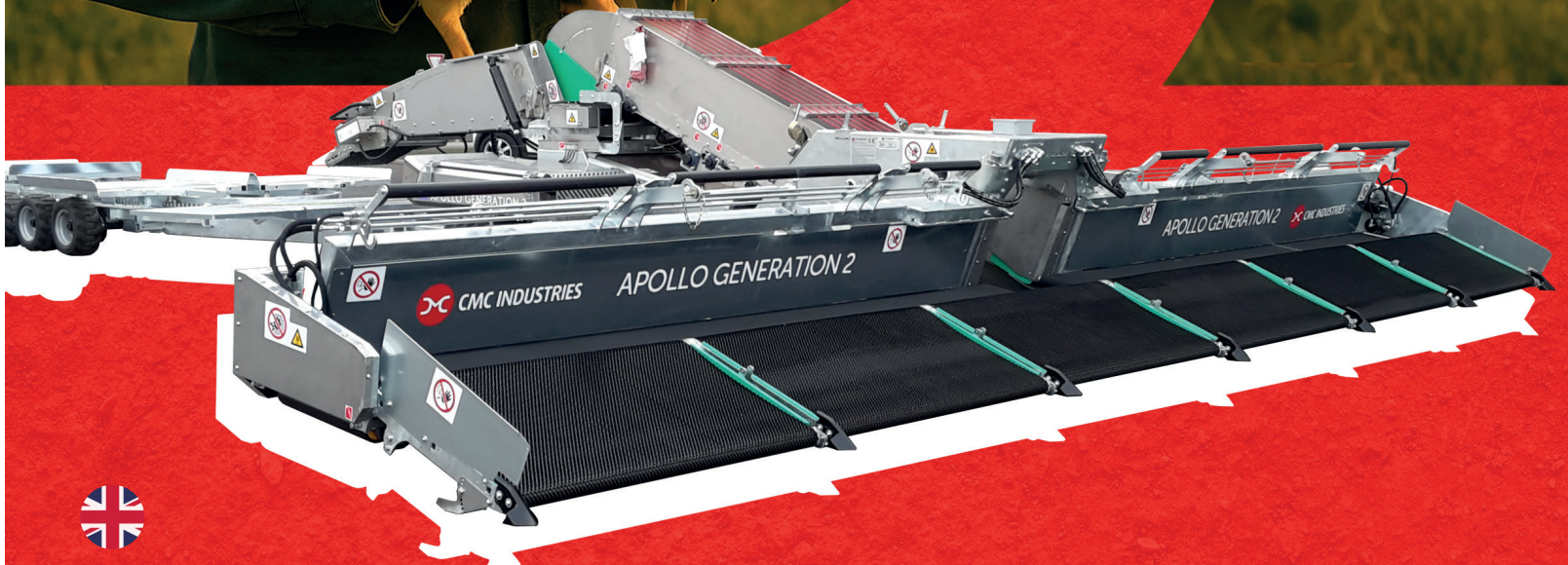


CMC INDUSTRIES
POULTRY TECH



Apollo Generation 2

Gentle on the Birds. Powerful in Performance.





CMC INDUSTRIES
POULTRY TECH

TECHNOLOGY AND MARKET LEADER



1 Innovation

2 Animal Welfare & Biosecurity

3 Productivity & Quality



Since 1972, **CMC Industries** has established itself as a well-structured holding company with two divisions: **CMC Poultry Tech**, serving the poultry sector. **CMC Intralogistics**, specialising in materials-handling logistics.

CMC Poultry Tech is internationally recognised as the **leading name in the poultry industry** for designing and producing automated systems for live-animal handling and loading.

We offer a broad range of advanced products developed to meet customer needs while ensuring the highest standards of **efficiency, animal welfare** and **biosecurity**.

CMC Industries' portfolio of solutions delivers improved productivity, enhanced quality and lower costs, supported by dedicated **after-sales** service and expert consultancy.

CMC Poultry Tech's **distribution network** spans the globe, with products exported worldwide. In 2018, the company established **CMC Industries North America Corp.**, expanding its direct presence in the United States. This demonstrates its ongoing commitment to providing high-quality service as close to customers as possible.

Every CMC Poultry Tech product is designed in compliance with the **European Hygienic Engineering and Design Group (EHEDG)** guidelines, ensuring the highest standards of biosecurity.

MADE IN ITALY
since 1972

CMC HEADQUARTERS

CMC NORTH AMERICA CORP.

+50

Countries
across **5 continents**

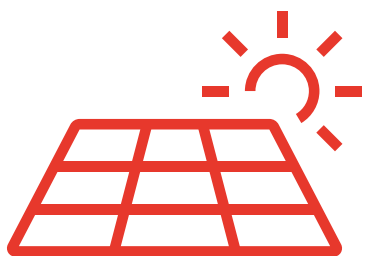
95% Market share

5% Turnover in R&D

57 Registered patents

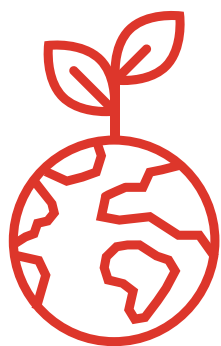


100%



990 KWP
NOMINAL POWER OF THE
PHOTOVOLTAIC SYSTEM

Fully Energy Independent



268 t of CO₂
SAVED ANNUALLY

Apollo Generation 2

WHY IT WORKS MORE EFFECTIVELY



Load Quality & Animal Welfare: The new design and new technical features of the Gen2 represent a significant step ahead in terms of animal welfare and quality of the loading. The complete machine has been conceived based on 40 years of experience with the main objective on improving these aspects with no compromises on loading speed.

The increased width of all the belts allow to maintain the same loading speed performance but with a lower conveying speed. The inclination of the belts as well as all the drop between adjoining belts have been minimized for a smoother conveying. The 3's system (Soft Start and Stop) controls all the belts to gradually start and Stop, allowing the birds to keep their balance during the loading. The caging arm design and process has been optimized allowing a very gentle placement of the birds inside the container drawers.

All this has significantly contributed in the birds to remain calmer during the entire loading process, consequently reducing the stress during the loading process.

Cleanability and Bio-security: CMC Industries has been working on improving Cleanability and Bio-security, following the guidelines of EHEDG (European Hygienic Engineering and Design Group). Within this program, the entire design of Gen2 has been optimized and simplified to ensure a better access to all machine points and an easier cleanability of all components, resulting in faster and more effective cleaning process and in a improved bio-security.

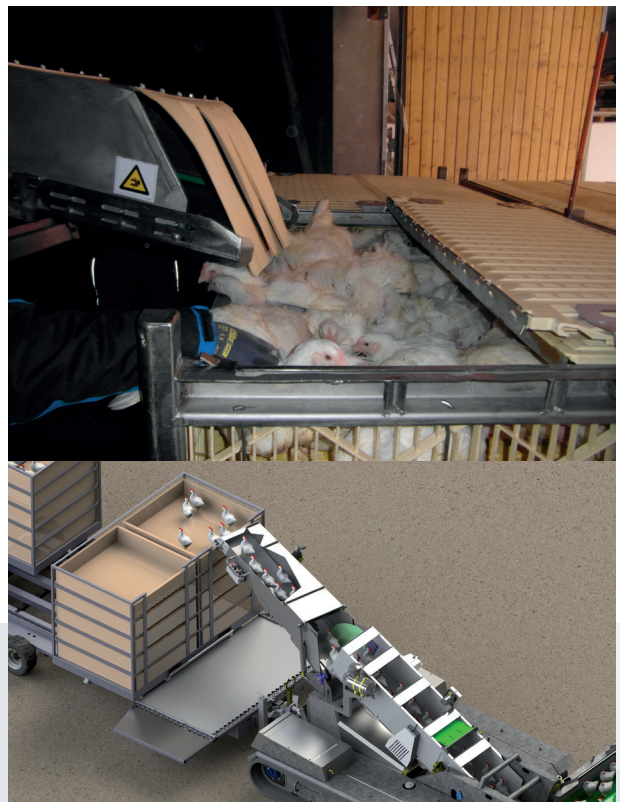
Consistent quality and quantity: Apollo can load between 8,000 and 12,000 animals per hour, which is equal to 16-26 tonnes per hour, depending on the weight of the animals, the type of container, the speed of the forklift and the distance travelled. Apollo's weighing system guarantees that the correct quantity of chickens is deposited into the containers with quick, high-quality continuous loading. This significantly improves logistics inside the slaughterhouse.



1

HARVESTING

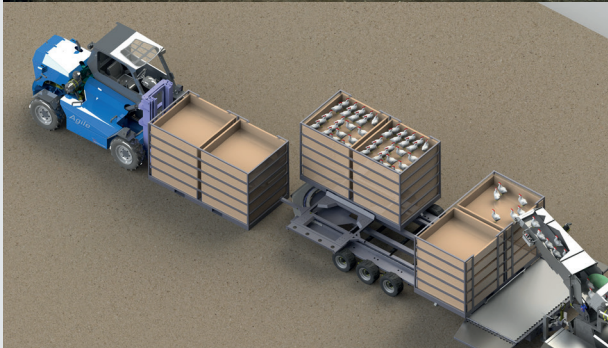
The machine is stationed inside the poultry shed and prepared by opening the two wings of the front collection head, which are formed of individual blocks of conveyor belts. The operator starts the machine: Apollo activates the conveyor belts and slowly moves towards the animals, allowing them to climb onto the collection belts in a natural way that requires no mechanical force. These belts deposit the birds, without subjecting them to any sudden or stressful movements, onto the two



2

CAGING

The animals then continue into Apollo's central channel, where they are carefully transported towards the caging area. Here, the caging belt directly deposits the birds into the container. With simple controls, the operator can raise or lower the belt, or move it nearer or further away. The new design of the machine ensure a stressful-free caging process with reduced flapping and improved placement of the birds inside the drawers. Thanks to the automatic weighing system, the machine stops when it reaches the preset value, guaranteeing compliance with every regulation in force regarding animal density in the containers.



3

CAROUSEL

The containers are positioned on a carousel, which, with the aid of automatic movement, allows for a continuous loading process. This is where the core of the innovative animal weighing system is located, which allows for the instant verification that the correct weight of animals has been deposited into each crate. Once a module is full, it is then ready for collection by the forklift, which places it on the lorry outside the poultry shed.

1

Load Quality

Lower belts Speed. Wider belts. Smoother conveying. Gentle placement of the birds inside the containers. All resulted in better load quality with no compromises on loading speed.

2

Full focus on animal welfare

Birds are loaded in a natural, stress-free manner, gently deposited into the drawers, with no direct contact from operators.

APOLLO GENERATION 2 STRENGTHS



3

Loading Speed

From 8,000 to 12,000 animals per hour, or approximately 16-26 tonnes per hour.

4

Addresses biosecurity issues

The design has been optimized according to EHEDG (the European Hygienic Engineering and Design Group) guidelines. All components that come into contact with the birds are made out of either stainless steel or galvanized metal. Cages never come into contact with the litter.

5

Better working conditions for employees

Easy to maneuver.
Significant reduction in physical labour.

6

Easy to clean

Specifically designed to facilitate easy, quick and effective daily cleaning with only water and disinfectant with no compromises on biosecurity.

7

Easy to use & Reduced Labor Cost

Requires only 3-4 operators. Simple controls.
Stable rubber tracks. Automatically loads birds to operator's preset weight limit.

8

Flexibility

Loads any type of cage including Stork, Linco, Anglia, Meyn, or customized cages.

9

Durability & Reliability

Designed on the field experience of more than 10 Million working hours gained all-over the world.

10

Straightforward maintenance

Clear and simple user manual, with explicit maintenance program outlined. Manual includes specific component breakdowns with diagrams of all parts. Easy access to core parts of the machine.

ALL THE ANSWERS FOR YOUR QUESTIONS



**Is Apollo Generation 2
a quality product?**

Most definitely. Apollo Generation 2 adheres to the strictest quality standards imposed by the leading food sector companies across the world.



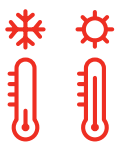
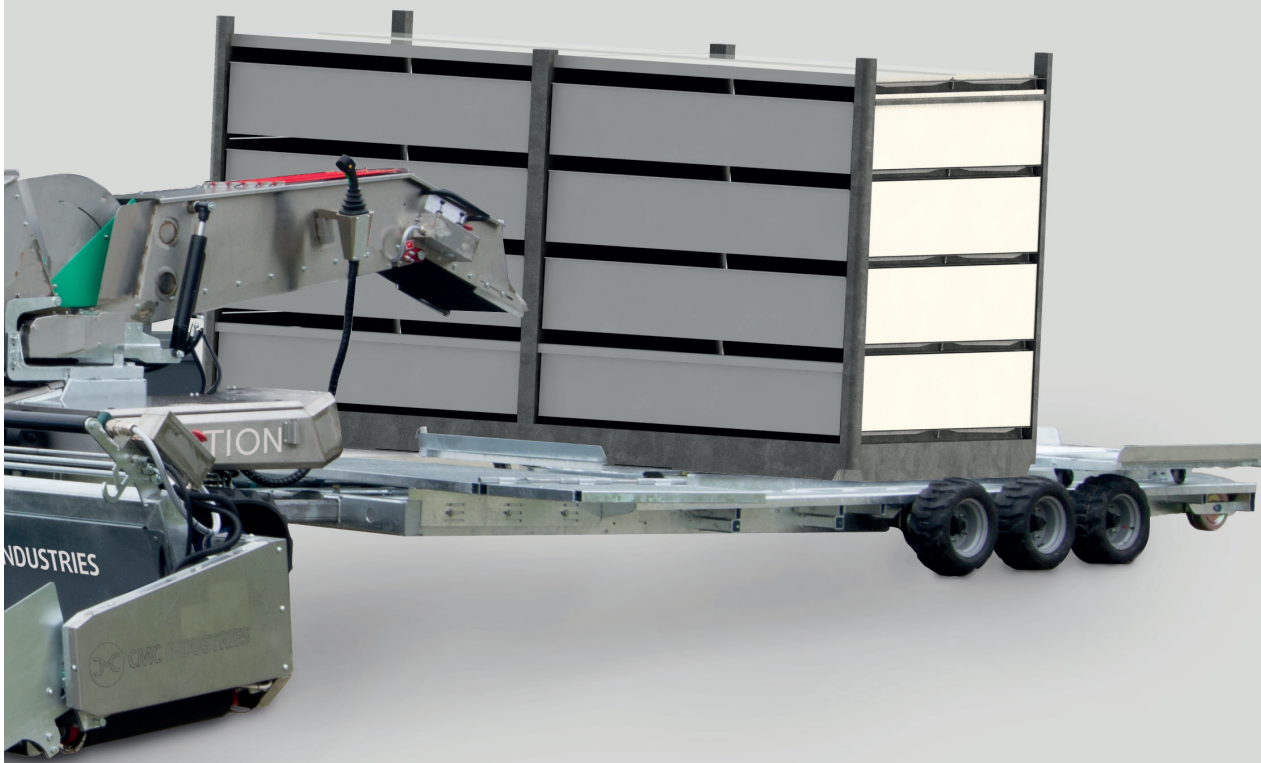
**Which types of containers
can i use?**

Any type. Apollo Generation 2 uses the most common containers available on the market - including Stork GP, Meyn, Linco, Anglia - but can also load custom modules. Different types of containers can even be used during the same loading session: a simple computer command is all it takes.



**What happens if my poultry
shed has pillars inside?**

Thanks to the front-harvesting system, Apollo Generation 2 can easily move along different corridors.



What if it gets very cold or very hot?

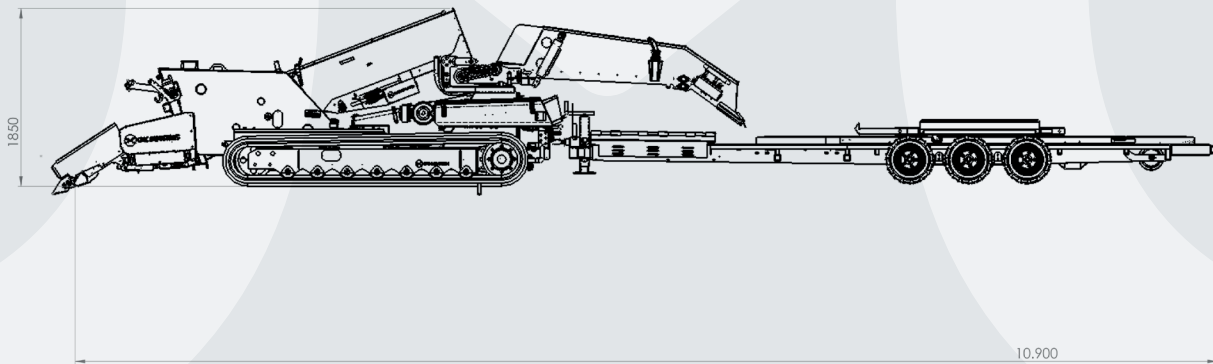
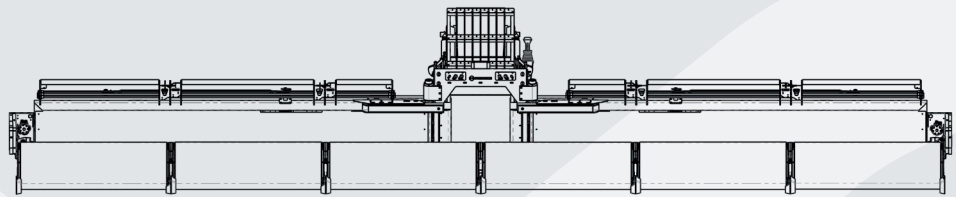
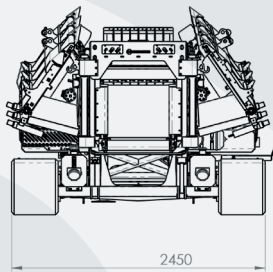
Apollo Generation 2 has been designed to work in temperatures ranging from -40°C (-40°F) to $+50^{\circ}\text{C}$ (122°F).



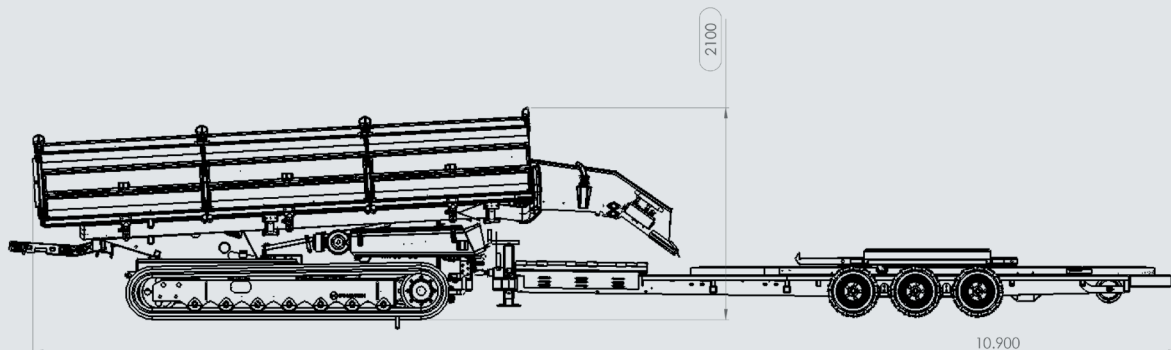
And in terms of cleaning and bio-security?

Following the EHEDG and CMC Cleanability Protocols the entire design of Gen2-B has been optimized and simplified to ensure a better access to all machine points and an easier cleanability of all components, resulting in a faster and more effective cleaning process and improved bio-security.

TECHNICAL DATA



Apollo with CR2 Carousel 3 positions



Ciemme Calabria Srl informs that the data contained in this publication are purely indicative and are subject to change without notice.

PERFORMANCE

Machine set-up time	5 minutes
Operators	3-4
Load quantity	From 16 to 26 tonnes/h
Machine weight*	5,370 kg - 11,838 lb
Carousel Weight	2,200 Kg - 4,850 lb

ENGINE

Model	Kubota V2607-DI-T-E3B (Tier 3) / Kubota V2607-CR-T-E5B (Tier 5)
Maximum power	49,2 kW-66 Hp (Tier 3) / 53 kW-71 Hp (Tier 5)
Revolutions per minute (machine in use/max)	2,000 / 2,700
Functioning	4 stroke diesel
Cooling	Liquid, hydraulic reversible fan
Number of cylinders	4 in line
Cylinder capacity	2,600 cc
Consumption	6-7 l/h - 1.58-1.84 gal/h

TRANSMISSION

Double hydrostatic pump with variable cylinder capacity	21cc + 21cc
Hydraulic dual speed piston motor	
Joystick-controlled movement	
Rubber tracks with internal steel structure	width 450 mm

HYDRAULIC SYSTEM

Double hydraulic circuit	32 lt. 160 Bar - 22 lt. 160 Bar
Electrohydraulic parking brake	

TANK CAPACITIES

Fuel tank	93 l - 24,55 gal
Hydraulic tank	93 l - 24,55 gal

STANDARD EQUIPMENT

Harvesting head	From 3 to 9 m
Container carousel	
Soft Start System controls all the belts to gradually start, allowing the birds to keep their balance	

OPTIONAL EXTRAS AND ACCESSORIES

Front steering	
Harvesting head hydraulic hitch	
Hydraulic oil ATF XT II for low temperatures	

ADDITIONAL INFORMATION

Frame	Hot-dip galvanised steel and stainless steel
Cleaning	High pressure air and water
Push Button	IP 69 K

*Based on a machine with 9mt wide harvesting head

Your Satisfaction, Our Priority

OUR CUSTOMER IS AT THE HEART OF EVERYTHING

A full range of
SERVICES

To support every customer
and meet **every need**.



CMC Poultry Tech is committed to supplying products that optimise process **efficiency** and **quality**, **maximising productivity** and **yield** throughout the production cycle.

Maintaining these **high standards** requires a strongly customer-focused approach. We provide a full range of services designed to deliver tailored solutions, including: **Training, Service Contracts, Remote** and **On-site Assistance, Spare Parts Supply**, and **Revamping**.

To support every customer in their operations, CMC Poultry Tech offers access to a dedicated service team. Our technicians coordinate and manage the complete service package, providing expert guidance throughout the production process.



TRAINING

With extensive knowledge of customer needs across global markets, CMC technicians provide training for your operating and maintenance staff. Courses can be delivered either at the CMC training centre or directly on site.

SERVICE CONTRACT

This service, normally carried out on the customer's premises, is designed to improve machine performance and reliability, extend lifespan, and reduce downtime caused by incorrect settings or malfunctions. It helps minimise management costs through regular maintenance while enhancing the skills of your maintenance and operating staff.

ASSISTANCE

Customers benefit from prompt, professional support both in Italy and worldwide through our global network. Services are adapted to the needs of each market and can be managed directly by the CMC team or via authorised dealers and service centres.

SPARE PARTS

CMC Poultry Tech maintains well-stocked warehouses with all essential spare parts. Alongside our Italian headquarters and American branch, parts can also be supplied through a global network of dealers and service centres, with orders typically shipped on the next working day.

REVAMPING

CMC Poultry Tech machines are built for long-lasting performance, while continuously evolving continue to evolve as technology advances. We offer upgrading options to update existing machines, improving efficiency and extending their service life.



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