

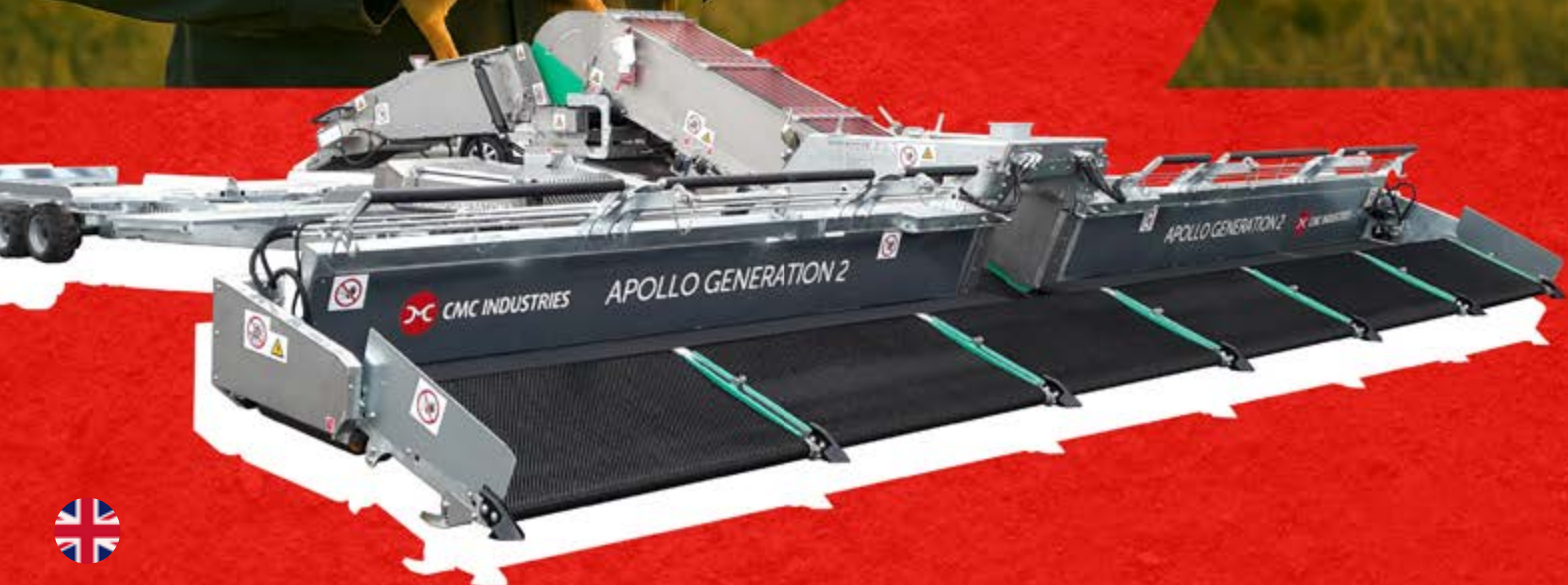


CMC INDUSTRIES
POULTRY TECH



Apollo Generation 2

Gentle on the Birds. Powerful in Performance.



CMC POULTRY TECH

YOUR PARTNER IS TECHNOLOGICAL AND MARKET LEADER



1

Innovation

2

Animal welfare
& Bio security

3

Productivity
& Quality

CMC Industries, after 50 years of business, is present on the market as a structurally efficient holding company, including two divisions: **CMC Poultry Tech**, operating in the poultry sector and **CMC Intralogistics** operating in the material handling logistics sector.

CMC Poultry Tech, division of the CMC Industries group, is the internationally recognised **technology and market leader** in handling and automated loading systems of animals in the poultry sector.

CMC Poultry Tech offers its customers a **wide range of technologically cutting-edge products** built to meet the needs of its Customers and designed to guarantee high standards of **efficiency, animal well-being and bio-security**. CMC, with its portfolio solutions, guarantees better productivity, quality and cost reduction; also providing

dedicated **after-sales** customer service and premium consultancy.

CMC Poultry Tech has a **distribution network** operating **worldwide**, where products are exported around the globe. In 2018, the company inaugurated **CMC Industries North America Corp.**, thereby extending its presence also in the United States. This step confirms the constant commitment to providing high-quality service as close as possible to its Customers.

The product range of CMC Poultry Tech is designed in compliance with the **European Hygienic Engineering and Design Group (EHEDG)** guidelines, guaranteeing the highest standards in terms of bio-security.

50 YEARS
OF EXPERIENCE



MARKET
SHARE
95%

EXPORT NETWORK:
+50 COUNTRIES
AND **5** CONTINENTS

5%
R&D
TURNOVER

57
PATENTED
SYSTEMS



100%

ENERGETIC
AUTONOMY



CO₂ ANNUAL SAVING OF

268 t



630,000 kWh

PER YEAR PRODUCED
BY THE PHOTOVOLTAIC SYSTEM



CMC INDUSTRIES

Apollo Generation 2

WHY IT WORKS MORE EFFECTIVELY



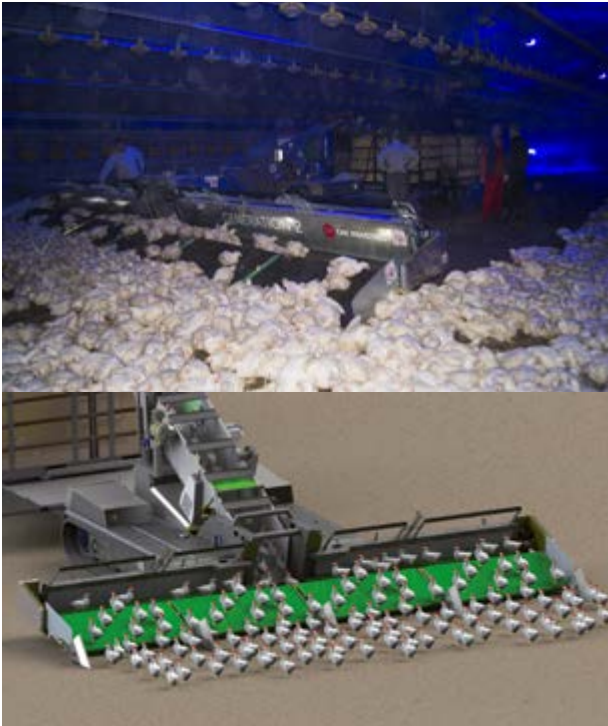
Load Quality & Animal Welfare: The new design and new technical features of the Gen2 represent a significant step ahead in terms of animal welfare and quality of the loading. The complete machine has been conceived based on 40 years of experience with the main objective on improving these aspects with 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 being subjected to a very low stress level and consequently to remain calmer during the entire 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

CATCHING

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 transverse belts that lead to the central channel.

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.

2



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.



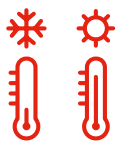
Which types of containers can i use?

Any type. Apollo Generation 2 uses the most common containers available on the market - including Stork GP, Meyn, Linco, Anglia - but can also take cages constructed on site. 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-loading system, Apollo Generation 2 can easily move along different corridors.



What if it gets very cold or very hot?

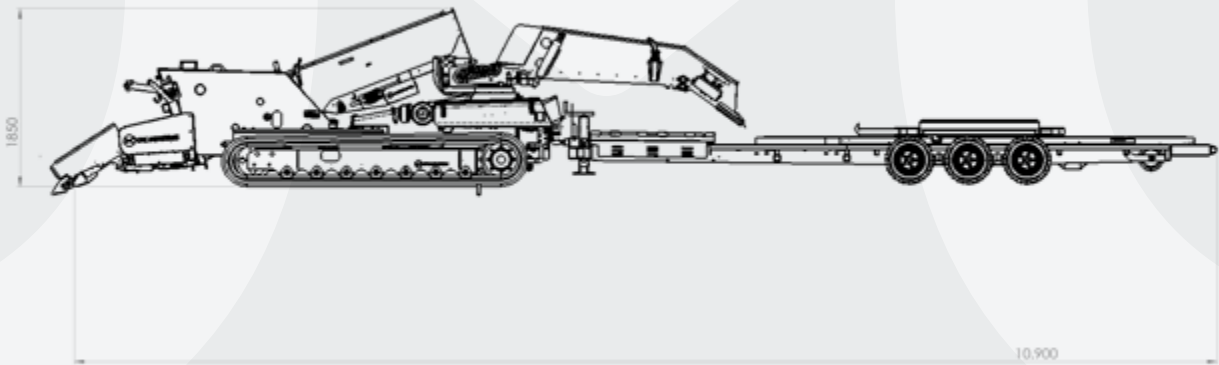
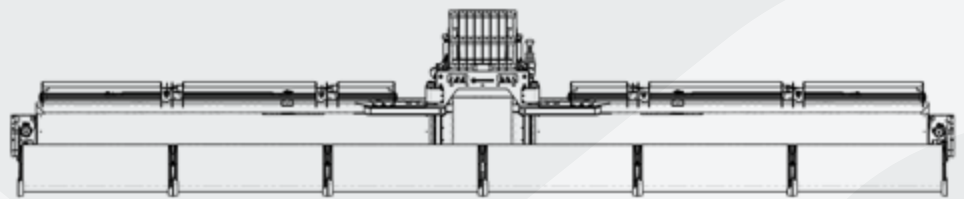
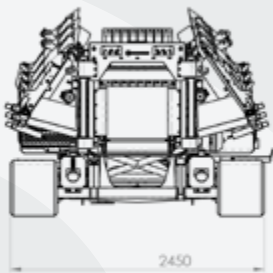
Apollo Generation 2 works very well between temperatures of -40°C (-40°F) and $+50^{\circ}\text{C}$ (122°F).



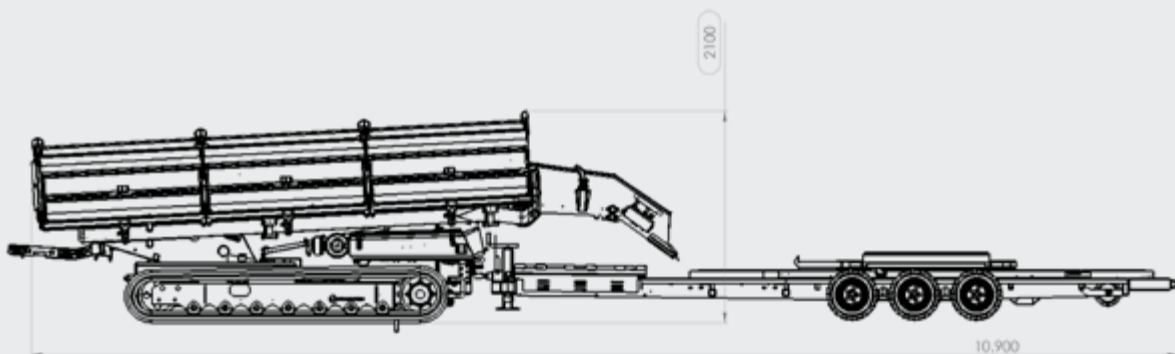
And in terms of cleaning?

Apollo Generation 2 has a fully galvanised body and its main components are made from stainless steel, making the machine very easy to wash and disinfect. All of this leads to a significant increase in Biosecurity.

TECHNICAL DATA



Apollo with CR2 Carousel 3 positions



Ciemmec 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

CUSTOMER SATISFACTION THE CUSTOMER IS AT THE HEART OF EVERYTHING

A FULL RANGE OF
SERVICES
TO ACCOMPANY
EVERY SINGLE
CUSTOMER IN
THEIR BUSINESS,
FULFILLING ALL
NEEDS.

CMC Poultry Tech has set the goal of supplying products capable of optimising the **efficiency** and **quality** of processes, maximising **productivity** and **yield** throughout the entire life cycle.

Guaranteeing these **high process standards** involves the development of a strongly **customer-oriented business model**, which can count on a wide range of services aimed at offering **diversified solutions** based on customer needs, including: **Formation & Training, Service Contract, Assistance, Supply of Spare Parts and Revamping.**

In order to support every single Customer in their activity, CMC Poultry Tech offers access to a dedicated **service team**, made up of technicians able to coordinate and manage the entire range of services offered, supporting the Customer during the entire processing cycle.



FORMATION AND TRAINING

As a result of the great knowledge of application specifications and customer needs in all the reference markets worldwide, CMC technicians can train the operational and technical staff of the sector, offering training courses both at the CMC Industries training centre and at the customer's site.

SERVICE CONTRACT

This Service, which is usually carried out directly at the Customer's site, is designed to: improve performance and reliability of the machine; prolong the service life; reduce any losses due to wrong settings or malfunctions, minimise management costs through correct and periodic maintenance, improve the skills of the Customer's technical and operating staff.

ASSISTANCE

Customers can always rely on our prompt and trained assistance, both in Italy and overseas via a network available worldwide. Adapting itself to the specific needs of every market, CMC can offer diversified technical support and customer care solutions. Based on the Customer's needs, these activities are managed directly by the CMC Team, which offers a widespread network of dealers and authorised service centres.

SPARE PARTS

To minimise customer machine downtimes, CMC Poultry Tech is equipped with warehouses supplied with every spare part necessary. In addition to the main Italian site and the American branch, the spare parts can be supplied by a network of dealers and service centres and shipped on the next working day after placing the order.

REVAMPING

CMC Poultry Tech machinery is developed to guarantee long-lasting performance. However, as a result of advanced technology, the machinery is continuously improved/updated. CMC Poultry Tech thereby offers the possibility of modernising machines in order to improve performance and efficiency.



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