



CMC INDUSTRIES
POULTRY TECH

Apollo Generation 2B

Load Quality, the New Frontier.
With Blown Air System.



CMC INDUSTRIES
Leading in Load Solutions

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



CMC INDUSTRIES
POULTRY TECH

MARKET
SHARE
95%

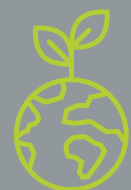
EXPORT NETWORK:
+50 COUNTRIES
AND **5** CONTINENTS

5%
R&D
TURNOVER

57
PATENTED
SYSTEMS

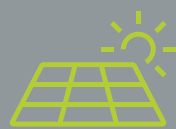


100%
ENERGETIC
AUTONOMY



CO₂ ANNUAL SAVING OF

268 t



630,000kWh
PER YEAR PRODUCED
BY THE PHOTOVOLTAIC SYSTEM

 **CMC INDUSTRIES**

Apollo Generation 2-B

WHY IT WORKS MORE EFFECTIVELY



Load Quality & Animal Welfare: The new design and technical features of the Apollo Gen2-B, developed on the base of 45 years of experience, represent a significant step ahead in terms of animal welfare and quality of loading.

The design and working specifications of all the belts have been devised with the main objective to achieve a stress-free collection and conveying of the birds into the modules. 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 new blown air system with adjustable air flow together with the self-adjusting caging arm grant a gentle and smooth caging process.

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.

The result of that are great performances in terms of welfare and loading quality.

Cleanability and Bio-security: CMC Industries has been

working on improving Cleanability and Bio-security, following the CMC Cleanability and EHEDG Protocols. The European Hygienic Engineering and Design Group (EHEDG) set the engineering European Standards in terms of hygiene and biosecurity in the poultry industry. Within this program, the entire design of Gen2-B has been optimized and simplified to ensure a better access to all machine points and easier cleanability, resulting in a faster and more effective cleaning process and improved bio-security.

Consistent quality and quantity: Apollo can load between 8,000 and 12,000 birds per hour, i.e. 16,000-26,000 kg (35,000 to 57,000 lb) per hour, depending on the weight of the animals, the type of cages, the forklift's speed and the house conditions.

The weighing system guarantees the correct quantity of birds being loaded.

Apollo Gen2-B definitively ensures a fast, consistent, animal-friendly and high-quality loading process. This significantly improves the logistics inside the slaughterhouse.



1

CATCHING

The machine can be easily and quickly driven inside the chicken house. Here it is prepared for loading by opening the two wings of the front collecting head, which are formed of independent blocks of conveyor belts. The operator starts the machine: Apollo activates all the belts and slowly moves towards the animals, allowing them to climb onto the collecting belts in a natural way. 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 continue into Apollo's central channel, where they are carefully carried towards the caging unit. Here is where the blown air system is supplying the air flow, that is facilitating a smooth and natural entry of the birds into the cage. This flow can be adjusted with a simple regulator based on the weight of the birds as well as the type and model of cages being used. In case of drawer systems the air flow can be turned off, so that the caging belt directly deposits the birds into the drawers. With simple controls, the operator can raise or lower the caging unit, or move it nearer or further away. The new machine's design ensures a stress-free caging process with reduced flapping and improved placement of the birds inside the cages. Thanks to the automatic weighing system, the machine stops when it reaches the preset weight for each door or drawer.

2

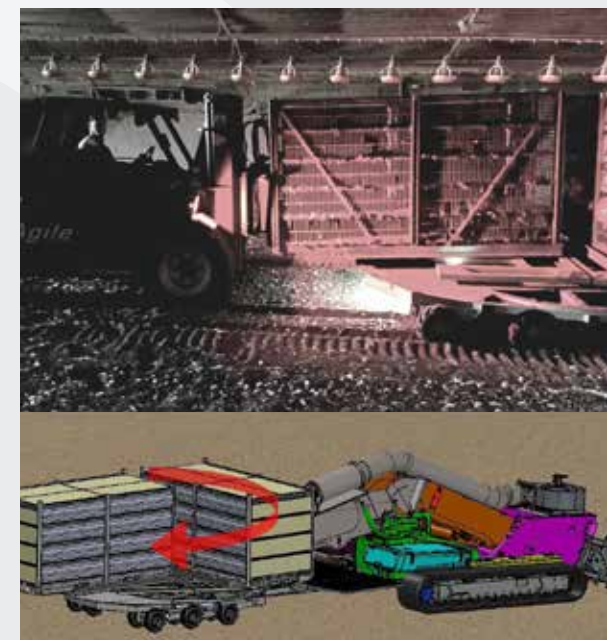


3

CAROUSEL

The cages or drawer systems (modules) are positioned on a carousel, which is turned when the module is fully loaded granting a continuous loading process. This is where the core of the innovative animal weighing system is located, which allows constant monitoring that the correct weight of animals is being loaded.

This also ensures compliance with any regulation in force regarding bird density in the cages and maximum weight allowed for transport. Once a module is full, it is then ready for collection by the forklift, that hauls the module outside the shed and places it on the trailer.



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.

3 Loading Speed
From 8,000 to 12,000 animals per hour, or approximately 16.000-26.000 kg per hour (35,000 to 57,000 lb 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 10Million 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.

APOLLO GENERATION 2-B STRENGTHS

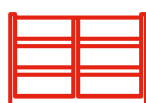


ALL THE ANSWERS FOR YOUR QUESTIONS



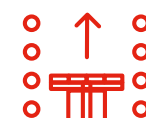
Is Apollo Generation 2-B a quality product?

Most definitely. With 40 years of experience and machines all over the world (over 90% market share worldwide) Apollo Gen2-B is the best solution to support your business. Apollo Gen2-B adheres to the strictest quality standards imposed by the leading food sector companies around the world.



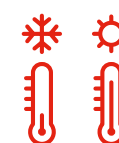
Which types of containers can i use?

Any type. Apollo Gen2-B is suitable for the most common drawer systems and cages available on the market. The Apollo Gen2-B version has been optimized to work at its best in combination with the most common cages being used in the US market. Different types of containers can even be used during the same loading session: a simple computer setting is all that it takes.



What happens if my poultry shed has pillars inside?

Thanks to the front-loading system and the different front head width sizes Apollo Gen2-B can easily move along different corridors.



What if it gets very cold or very hot?

Apollo Generation 2-B works very well between temperatures of -40° C (-40° F) and +50° C (122° F).

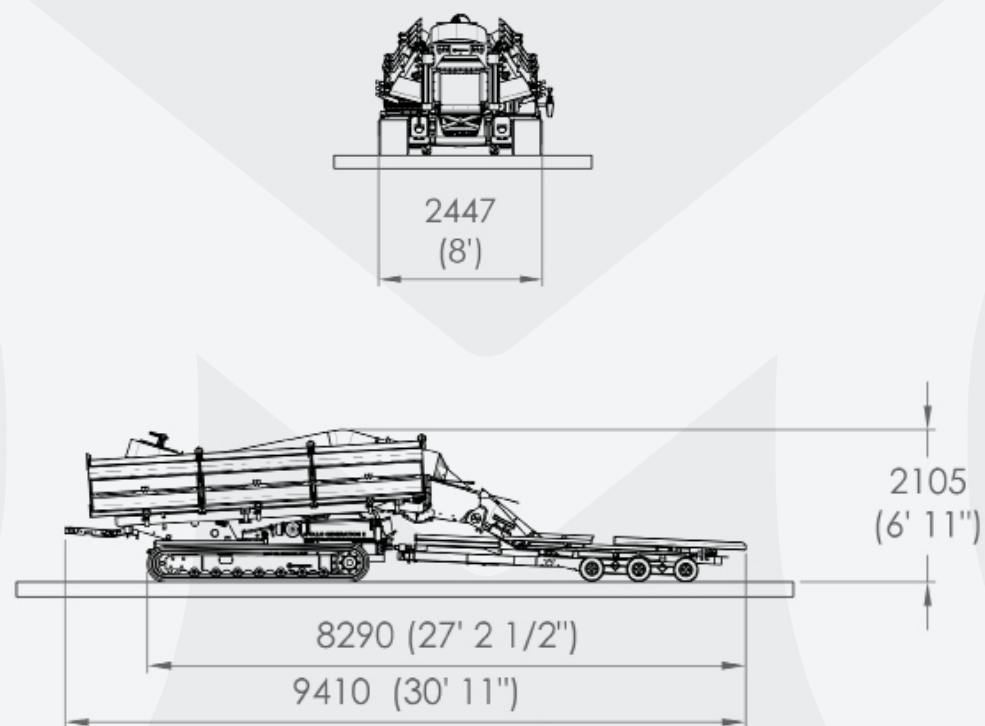


And in terms of cleaning and bio-security?

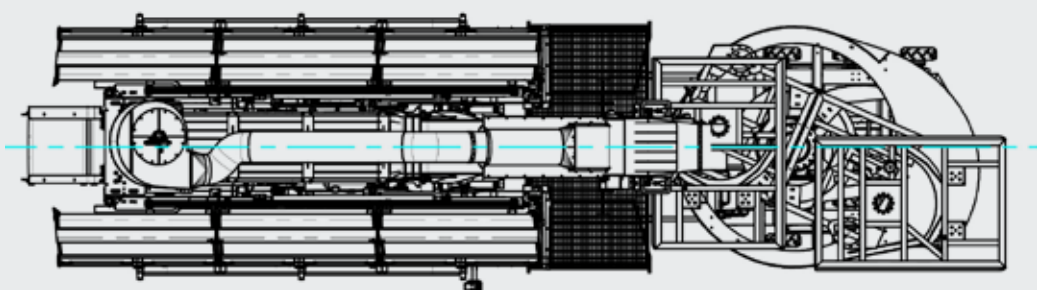
Following the EHEDG and CMC Cleanability Protocols the entire design of Gen2-B has been optimized and simplified to ensure a better access to all machine points and an easier cleanability of all components, resulting in a faster and more effective cleaning process and improved bio-security.

TECHNICAL DATA

CONFIGURATION FOR TRANSPORT



Apollo Gen2-B with 2 carousel positions



PERFORMANCE

Machine set-up time	5 minutes
Operators	3-4
Load quantity	from 16.000 to 26.000 kg/h (from 35,000 to 57,000 lbs\h)
Machine weight (incl. carousel)*	8,000 kg - 17,637 lbs

ENGINE

Model	Kubota V2607-CR-T-E5B
Maximum power	53 kW (71 Hp)
Revolutions per minute (machine in use/mac)	2,000 / 2,700
Functioning	4 stroke turbo 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
Self-moving (at low and adjustable speed) during loading	
Joystick-controlled drive (2speed) for transfer	
Rubber tracks with internal steel structure width	450 mm (173/ 4'')

HYDRAULIC SYSTEM

Electrohydraulic parking brake

TANKS

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	
Caging Belt Unit with Blown Air System	
Soft Start System controls all the belts to gradually start, allowing the birds to keep their balance	

OPTIONAL AND ACCESSORIES

Hydraulic hitch for interchangeable head	
Hydraulic oil for low temperature Type ATF XT	

ADDITIONAL INFORMATION

Frame	Hot-dip galvanised steel and stainless steel
Cleaning	High pressure air and water
Manipulator and Joystick	IP 69 K Rating

* Based on a machine with 9mt (29'6'') wide harvesting head and 2 position carousel

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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