

DMPACK SRL

Via Dell'Artigianato , 34 36030 San Vito di Leguzzano -VI

Tel. 0039-(0)445-580093 / 602907 Fax.0039-(0)445-584609

Email. commerciale@dmpack.it

Web. www.dmpack.it



San Vito, 02.03.21

SKYLOTEC GmbH

Im Mühlendgrund 6-8 Im Mühlengrund 6-8
D-56566 Neuwied D-56566 Neuwied



ORDER CONFIRMATION 34/21 RIF. OFFER NUMBER 183/21

TO THE KIND ATTENTION OF Mr. Gerd Broecker

Scope of Supply: Continuous Cartoner GEA for masks exiting from a flighting
infeed conveyor already grouped on their 'edge'

speed : 60 cartons/min

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DMPACK REAL ADVANTAGES:

- ☐ **SAME COMPONENTS**, ISO, for all stations composing our packaging lines
- ☐ **All stations are built by DMPACK with ERGONOMIC DESIGN** which allows operators to operate machines from both sides (left and right) & hyper accessible for fast cleaning and change of format.
- ☐ **SIMPLE and mostly MOTORIZED change of format**
- ☐ **50 % Energy saving: REDUCED ENERGY CONSUMPTION**

DM Pack is specialised in the study and the creation of **complete systems for packaging and cartoning based on the customer's speed, versatility and space-related needs**. Intuitive, efficient and fast, our machines merge and combine to form compact and versatile lines tailor made.

Created and designed in an intuitive and revolutionary manner aimed at achieving two essential concepts, reliability and profit, obtained respectively thanks to:

- 1) use of **high quality, ISO certified components, the robust and solid structure** and mechanics of the line, built to work 7 days a week and over 3 shifts per day at high speed;
- 2) **simple and intuitive design, to enable immediate access, easy and fast cleaning**.

We focus on completely canter level and accessible structures, practical from both sides with sliding or opening doors that make the machine unique in terms of operability. **Rotating touch screen positionable on various sides to allow the operator to work on one side or on the opposite side (right/left)**.

All the mechanics are on view such as the electric box, to allow immediate diagnostics.

Most of the movements are motorized and can be saved to allow the operator to work on recipes.

The parts with which all the stations/machines are built to compose a line are always the same, all the conveyors are the same, as the bearings and the rollers (which are standard in stainless steel).

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The entire line has only two types of reducer gear and two types of motors to allow the client to keep a low cost spares kit.

The innovative systems used also enable savings in material and energy.

The accessories completing our sealing, cartoning or palletising machines have the essential function of creating a real and proper line, joining one station to the other and handling the product according to requirements: turning it, placing it over others, grouping it, etc... All these operations are possible thanks to our accessories and peripheral modules adequate for the application.



Picture of the machine 'similar' GEA CARTONER



PICTURE of the product Tissue Box produced by the CARTONER

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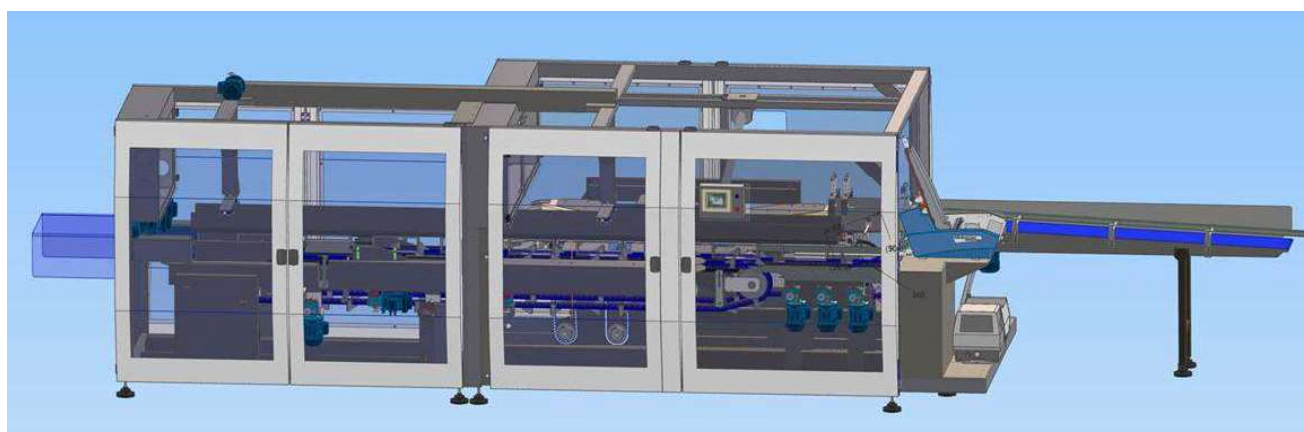
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N.1 CONTINUOUS CARTONER GEA

<u>Box type</u>	<u>Rectangular</u>
Width	140
Length	230
Height	100 mm
Layout	Automatic- inline from flighted infeed conveyor—connection to be evaluated
Line speed	Min 60 packs/min

The machine receives masks from the flighted outfeed conveyor, already in group and on their edge , automatically the facials are loaded into the pallet infeed conveyor and pushed and pressed into the preglued carton which will be opened by the automatic cartons magazine which will erect the carton and keep it open in position, ready to receive inner product. The cartons filled are then closed by hot melt.



The Connecting Conveyor (flight bar conveyor) receives the masks from the overhead stacker, already in groups and on their edge.

The sliding guides of the Connecting Conveyor should be adjusted slightly conical and compress the stack of products during the transportation towards the bucket conveyor (pallet infeed conveyor) of the cartoner. Preliminary drawings for the stacker have been send to DM Pack. The final stacker drawings will follow.

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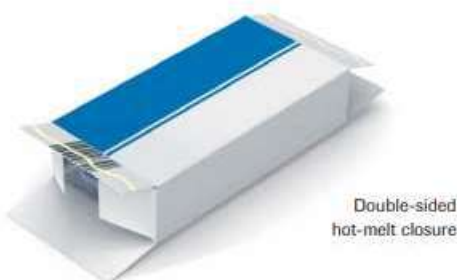
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The machine is complete with:

- 1) **Loading unit** that allows the products to be gathered in multipacks or to receive products and individually transfer them into pre glued carton
- 2) **Pre-glued carton storage unit**, from where the cartons are collected and opened;
- 3) **Carton formation and filling unit with side pushing device**
- 4) **Carton transport unit and closing unit with hot melt;**
- 5) **Hot melt (HMA) unit**



Below, we give you 10 good reasons to choose the innovative GEA cartoner:

1. **Compact layout:** infeed conveyor and machine are fully integrated by modules with easy opening doors on all sides, highly accessible for the operators thanks to the lack of a perimeter and being based on a core supporting structure. This solution also facilitates the maintenance and cleaning routine operations, that are made faster and easier thanks to the innovative design of the machine;
2. A-class, **ISO** certificated components;
3. **Partly automatic change** over by motor drives to another format. Change over by touch screen with motorized movement. Most of the movements are electrical and therefore can be saved on the

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control panel and can be loaded from “recipe”; Width and length of transport chain’s pitch automatically adjustable;

CHANGE OF FORMAT from Tissue Box with same length and width and different height will take 5 minutes: mechanically operator will only have to change the pallet of pushers of the in feed conveyor, the other movement will be controlled by servo motor, they can be memorized and recall.

4. **Carton picking** system provided with **motor drive** instead of pneumatic drive: more precision, less maintenance and energy saving;
5. The **infeed pusher** is provided with a **motor drive**: more precision, less maintenance; in continuous motion executions more pushers will ensure the output and feeding of the product into the pre glued carton smoothly
6. **Double operator position**, thanks to moveable control panel;
7. **Controlled by OMRON** and operator panel, which allows intuitive machine operation;
8. The **touch screen can be rotated**, enabling the operator of controlling the machine both from one side and the opposite; Operator’s position RIGHT or LEFT;
9. **Electrical panel** is complete with relays, easy to access and is positioned at **eye level**.
10. **Standard 800 MM of cartons magazine. Possibility to have prolonged cartons magazine**

The horizontal cartoner GEA automatically forms and closes boxes using pre-glued cartons. It essentially consists of a flighted infeed conveyor continuous motion for product insertion with motorized pushers, a carton storage unit, and a second step by step conveyor equipped with a device for inserting, folding and closing the box flaps.

Product insertion on the conveyor and the carton is done automatically by means of a synchronizing device. A mobile device for flap opening foreseen to ease product introduction. The products being fed is constantly driven and guided by sides round pressure belts to keep the products shaped & soft infeed by continuous in feed system for swollen bags (option).

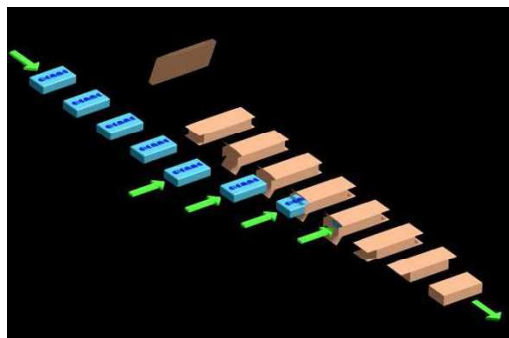
Box opening system will be in continuous mode in two steps (as seen on GEA CARTONER Video):

- 1) **Single-sorted one by one with independent device;**
- 2) **Opening box on conveyor chain before feeding section**

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Electrical supply	400V 50/60Hz 3PH+N+earth
Power	5 Kw
Air	6 bar constant
Colour Standards	RAL 9003
Working Height	900 +/- 50mm
Standard cartons dimensions:	Width 40 - 300 mm (W) Length 150 - 400 mm (L) Height 40 - 100 mm (H)
Weight:	1500 Kg

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Motors:	SIMOTOP
Reducers:	CMR
Bearings and supports :	SKF and SNR
Pneumatic components :	AIRTAC
PLC :	OMRON
Photocells and sensors:	OMRON
Inverter :	OMRON
Brushless:	OMRON
Relé:	OMRON
Electrical components and contactors:	SIEMENS