

Max Kondrath
Regional Sales Manager – Automatic Systems
a: 2150 Boggs Rd Suite 200, Duluth, GA 30096
w: www.robopacusa.com
mkondrath@robopac.com
(949) 734-9360

ROBOPAC PACKERS
ITALY

WRAP-AROUND CASE PACKER
WA20 MAJOR
MULTI ROWS PARALLEL INFEEED
with stacking system
LAY-OUT 031-21
OFFER NO. 0229-2021

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INTRODUCTION

SOTEMAPACK is a long established supplier of efficient and reliable packaging systems using the most up-to-date technology.

SOTEMAPACK employs a highly skilled, vastly experienced staff of design engineers and technicians, and a state of the art production organization.

The outstanding feature of all SOTEMAPACK systems is their reliability over the time, obtained through painstaking control of the manufacturing processes and the use of high quality, top performance components which are the most advanced available on the market both as regards excellent mechanical characteristics (toughness and precision).

Every solution is designed for a simple and easy size change over even by persons who are not particularly expert.

Our company is able to supply the following services:

- 1) training and backup for both technical and operating staff;
- 2) after sales service;
- 3) technical backup for the analysis of any future implementations and/or modifications.

CONFORMITY TO THE MACHINE DIRECTIVE

All the systems we supply conform to the safety regulations established by the current European standard and they are accompanied by a CE declaration of conformity and relevant "CE" marking.

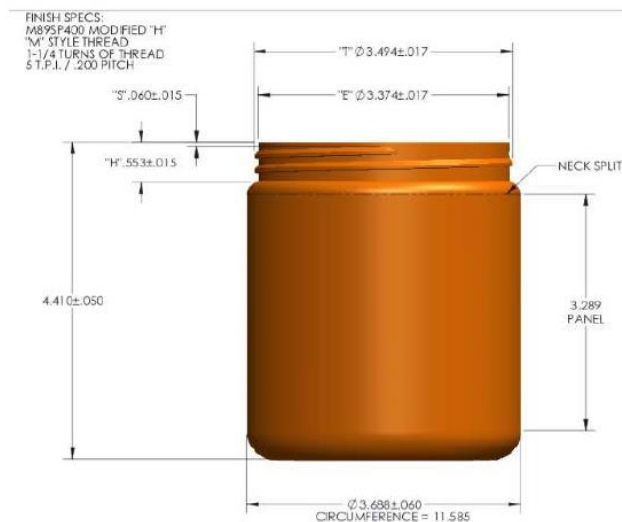
PRODUCTS & PACKAGES

LINE										Master
Additional description	Item	Kind of product	ml.	Shape	D. [mm]	Side leading [mm]	Side lateral [mm]	H [mm]	Weight [Kg]	Speed [Bph]
20oz	1	PET FLAT		Ø	89			111	0,447	3300
20oz	2	PET FLAT		Ø	89			111	0,447	3300
20oz	3	PET FLAT		Ø	89			111	0,447	3300
20oz	4	PET FLAT		Ø	89			111	0,447	3300
28oz	5	PET FLAT		Ø	89			144	0,447	3300
28oz	6	PET FLAT		Ø	89			144	0,447	3300
28oz	7	PET FLAT		Ø	89			144	0,447	3300
28oz	8	PET FLAT		Ø	89			144	0,447	3300

SECONDARY PACKER

Pattern			Leading side	N° bott	L [mm]	I [mm]	H [mm]	Bph 30%	Packs /1'	Packs Type	N° piste	Speed Machine	Note
Side leading		Side lateral											
3	x	2	SHORT	12	279	368	111	4290	5,95833	WRAP	1	6	
1	x	4	LONG	12	279	368	111	4290	5,95833	WRAP	1	6	
4	x	3	LONG	12	368	279	111	4290	5,95833	WRAP	1	6	
3	x	2	STACKED	12	279	190	222	4290	5,95833	WRAP	1	6	IMPIL
3	x	2	SHORT	12	279	368	144	4290	5,95833	WRAP	1	6	
1	x	4	LONG	12	279	368	144	4290	5,95833	WRAP	1	6	
4	x	3	LONG	12	368	279	144	4290	5,95833	WRAP	1	6	
3	x	2	STACKED	12	279	190	288	4290	5,95833	WRAP	1	6	IMPIL

Product 1



Product 2



MACHINE DESCRIPTION

Automatic packaging machine able to form, load and close wrap-around cases with product.

Product are received from the line on an infeed conveyor, then they are grouped in the required pattern and placed on the carton.

The carton blanks are picked-up from a high capacity blank magazine and formed around the product.

The machine can work as a tray former and loader only.

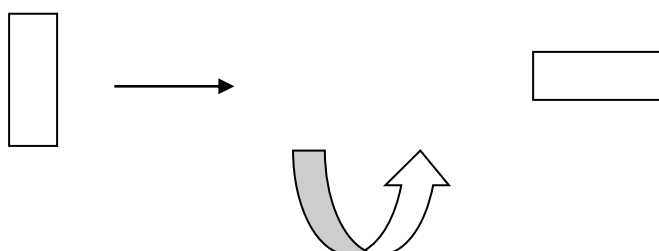
Cartons or trays are closed using a glue applicator spraying hot-melt glue.



MACHINE FEATURES

TURNING DEVICE

The products are in-fed from the upstream channels into a rotating conveyor that provide to turn the pre-wrapped packs at 90°, getting the products laying horizontally. The system is composed by two conveyor running at different speed.



HIGH SPEED DIVERTER

The function of the diverter is to automatically convey the products of non round shape (square, rectangular or oval) arriving in single lane from the upstream line into the infeed channels of the subsequent machine.

It is composed by an independent chassis with its relevant safety guard and is equipped with two motorizations

- The first one drives two double feeding belts (products feeder) that are adjustable in width according to the width of the products to handle.
- The second one drives the movement to fill the channels of the subsequent machine. When the movement is made the double feeding belts stops to restart when the group has reached the correct position for the filling of the new channel.

The speed of the diverter is 200 products/min.



PRODUCTS INFEEED

Products coming from the upstream line are fed on the machine conveyor parallel to the axis of the machine. It consists of:

- transport chain « INTRALOX » type and is equipped with an agitator device which enables the automatic infeed of round bottles into the machine infeed channels
- variable speed with acceleration and deceleration control.
- photocell detecting min. and maximum load.



PRODUCTS COLLATION

A pneumatic driven double gate separation system separates the products getting the required collation and present it to the mechanical driven transfer device which place them into the folded cardboard blank into the machine.



FLAT CARDBOARDS MAGAZINE AND PICK-UP

Adjustable according to the different sizes of cartons.

It has a capacity of 300 cartons with thickness 3mm that could be extended (optional). Photocell to detect minimum blanks level.

The flat carton, loaded in the magazine, is picked up by 2/4 suckers rigidly linked to the movement of a pneumatically driven arm.

These suckers, with "Venturi" vacuum devices, place the carton between the teeth of the machine chain conveyor so that it forms a 'U' shape.



MECHANICAL TRANSFER DEVICE

Equipped with a frequency converter, it transfers the product collation onto the "U" shaped carton.

Once the carton is positioned in between the teeth of the machine chain conveyor, two side plates go down and keep the side flaps, that are still open in the translation phase.

One of these flaps is located within a C-shaped guide and one under the slippage plate.

The first step-by-step movement of the chains places the carton into the loading position, waiting for product.

Pushed by the indexing unit, the product is moved onto the carton.



CARTON AND ITS FORMATION

The motor's backstroke indexes the chains to the next stage where the carton, with the product, meets 2 side plates, format related, which enable the front vertical flaps to fold inwards.

The folding of the rear vertical flaps is operated by two pneumatic-driven round-bars performing a semicircle movement.

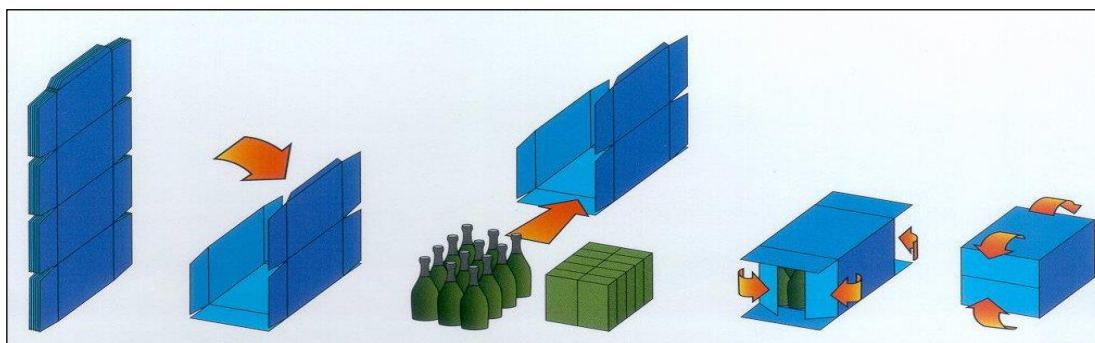
Then 2 + 2 glue points (2 on the right, 2 on the left) are sprayed on both (already closed) side edges.

The still open, upper and lower side flaps of the carton meet each a contoured round-bar folding and accompanying them until they adhere to the carton sides, assisted by pneumatic movement. The glue cooling off prevents them from reopening.

In its subsequent translation movement, a 3rd glue point is applied to the front flap .

Also this last flap is closed by a pneumatic movement.

The rear teeth of the chain push the ready case outside the machine.



MACHINE TECHNICAL SPECIFICATIONS

Machine speed	: max. 20 packs/min of cases or trays in function of product and carton quality.
Cases dimensions	: min. 200 x 120 x h.100 mm max. 600 x 400 x h.350 mm
Blank magazine capacity	: about 300 blanks min. 300 x 500 mm max. 800 x 1400 mm
Mains voltage	: 380 V – 50 Hz + Neutral
Total installed electric power	: 12 Kw
Auxiliary voltage	: 24 V DC/AC
Compressed air consumption	: 350 NI/minute at 6 Bar
Standard colour of the machine	: RAL 9007
Total weight	: Kg. 3000
Relative room humidity	: max 70%
Machine Efficiency	: >96%
Noise	: <85 dBA

PACKAGING MATERIAL SPECIFICATIONS

BLANK

Die-cut board
Small corrugation
Carton outer layer must be thick enough to allow pick-up by the suckers.
Suggested carton : KSK 323 B
Paper cover : National Kraft 150 gr./sq. m.
Corrugation : national semi-chemical 125-gr./sq. m.

HOT-MELT

Type : granular or flakes and no smell
Opening time : 2 seconds
Fixing time : 0,5 - 0,7 second
Traction resistance : 42 Kg/cm²
Steering : 473%
Application : with hot melt gun from 160°C to 180°C

STANDARD COMPONENTS

PLC : Siemens S7-1500
Operator Touch Screen : Siemens KTP 700
Inverter : Lenze
Photocells : Omron
Pneumatics : Camozzi
Moto-reducers : Bonfiglioli
Hot-melt applicator : Robatech

TECHNICAL DOCUMENTATION

The machine is supplied with following technical documentation:

Manuals : 1 set on paper and 1 set on CD. If not differently specified by the Customer, all the documentation will be dispatched together with the machine.
Language : Manuals, operator display and labels will be issued in one of the four European main languages (English, Spanish, German, French)

PRICES SUMMARY

One Automatic Wrap-around Case Packer model WA20 MAJOR Multi Rows Parallel Infeed as before described complete with: • Rotating device; • High speed diverter; • Multi channels parallel Infeed conveyor; • Photocell system to detect minimum and maximum products presence on the infeed channel; • Product separation system; • Mechanical transfer device; • Pick and place stacking system; • Cartons magazine; • Robatech hot melt 5 guns; • Cartons closing system; • PLC Siemens S7-1500; • HMI Siemens KTP-700 touch colour; • 8 base size changes; • Control Cabinet UL • Safety guards according to the CE norms; • Painting RAL9007 • Ex-works Sotemapack, Anzola dell'Emilia		
Total price		

INSTALLATION & START UP

Installation Mechanical Eng. for a total of 14 days		\$14,640
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Air ticket, local transfers, all local expenses (board and lodging) are not included in this price and are at customer's care and charge.



WARRANTY

WARRANTY CONDITIONS:

Twelve months from acceptance tests at customer's factory or, in any case, no more than 14 months from delivery date and includes material and workmanship.

The warranty is Ex-works Sotemapack, Anzola dell'Emilia, and you will, therefore, be charged for travel expenses, including hours, boarding and lodging.

Calls for any service under the warranty must be made by fax or e-mail, explaining the reasons.

In case, during the warranty service, it will come out that the fault or a part of it, has not to be imputed to Sotemapack, the relevant part will in charge of the customer.

The warranty does not cover any service performed on the day before holidays, holidays and vacation closure periods, the 2nd and 3rd week of August and the period from December 24th to January 2nd.

EXCLUSIONS FROM THE WARRANTY:

- Ordinary maintenance.
- Service to repair or replace parts damaged by incorrect use or incorrect manoeuvres.

Failure to scrupulously follow the use and maintenance instructions will void the warranty.

RETENTION OF TITLE

The parties agree that the sale is conditioned by the retention of title in Vendor's favour for the system sold until the whole agreed price is paid in full. Failed payment within the terms established of even just one instalment that exceeds an eighth of the Contractual Price, or the failed payment of two instalments within the terms established will immediately annul the Buyer's right to the benefit of the term, with consequent right of the Vendor to claim either the whole and immediate payment of the whole amount still due in one instalment or to resolve the Contract, at his sole choice, in compliance with the laws in force in the country in which the system is imported and with immediate return of the machines sold and retention of the all the instalments paid as indemnity and compensation for the use of the system and also any further claims for any other damages sustained. The Buyer does not have the right to sell or remove the machines, not even partially, without written authorization of the Vendor. The risk of loss of the merchandise is transferred to the Buyer when the merchandise is delivered. The machinery subject to "reserved domain" must be identified, by the Buyer, as property of the Vendor.

EXCLUSIONS

If not quoted or included in the quotation, have to be considered excluded:

- Packaging of the Supply.
- Expenses for room, board and interpreter for the entire duration of the installation of the system at your client's site.
- Transport of the supply.
- Mechanical and electrical modifications to your lines.
- Rental of equipment for moving the supply at your client's site.
- Masonry work of any type.
- Transport inside your plant; the positioning of the material supplied will be performed by your personnel with the assistance of SIR technicians.
- Equipment necessary for assembling the aerial lines.
- Connection to electric and pneumatic systems.
- In any case, anything not clearly specified in this offer is excluded.

SALES CONDITIONS

Transport.....: Ex-works

Shipment date 20 weeks from:
- order and down-payment receipt
- final layout
- samples of the product to be handled

Payment terms - 40% with the order
- 50% before shipment after machine test in our plant
- 10% after positive commissioning, but not later than 60 days from shipment

Pre-shipment test...: with product and packaging materials of customer's supply, possibly with the presence of customer's technical personal. In case of missed or incomplete test due to the lack of the above, Sotemapack S.r.l. declines any responsibilities for problems during commissioning and start-up.

Law, jurisdiction in case of disputes arising from the contract, the place of jurisdiction will be the Court of Bologna.

Quotation validity ...: 60 days.