



Product Catalog



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Introduction

More than a quarter century ago, an ambitious new indigenous industry took birth in India - the engineering & manufacturing of packaging machineries. SUBNIL's humble beginnings trace to that period in time.

Initially, it went into the production of a range of machines that could be slotted into any typical packaging assembly line for pharmaceutical and personal-care products. But by 1985, shortly after inception, SUBNIL was already cognizant of the need for specialisation.

It realised that the way to market leadership is to align every resource towards the development of one core strength and so it focused all energies into better understanding the complexities of packaging lines and thus stabilized with tube fillers, cartoner & end-of-line bundlers.

With the wealth of experience & expertise garnered over 40 years, today it has acquired dominance in India and Asia for its range of machines. SUBNIL's single-minded commitment has paid rich dividends in the form of appreciation across the continent. SUBNIL now stands shoulder to shoulder with globally acknowledged leaders when it comes to benchmarks in quality. Our simple industrial design and ease-of-use has revolutionised the way these machines are envisaged.

With supplies across the globe to renowned customers, SUBNIL aims to position itself as the definitive one-stop-shop.

Our uncompromising Research & Development division devotes itself to coming up with ways to decimate the problems. The finesse of our production personnel, really puts the 'craft' in SUBNIL. And the broad array of applications coupled with the opportunity to benefit from ultra-modern technology at smart prices has catapulted SUBNIL into every discerning buyer's consideration set.

Tube Fillers

SUBNIL tube fillers fill products in cylindrical metal / laminate / plastic tubes and closes it absolutely safely and symmetrically. 7 models, in capacities ranging from 35 to 300 tubes/min. are available to meet today's tube packaging demands. A variety of viscous and semi-viscous products are handled, like ointment, cosmetics, toothpaste, cream/gel, adhesive, sealant, mayonnaise and many more.

Although compact in size, all the machines have been ergonomically designed to ensure that working areas are easily accessible for setting, changeover and maintenance.

All machines conform to cGMP standards. quick & easy changeover is the leading attributes of the machines, which helps in responding to the faster-time-to-market age we live in. The optional equipment available with the machines make them absolutely trouble-free and versatile.

Rotary & Linear models available for various speeds.

LIMBUS Series are rotary models meant for low & medium speeds from 35 to 150 tpm.

CONDOR Series are linear models meant for high speeds from 180 to 300 tpm.



Top view of LIMBUS 150



Loading



Features



Orientation, Filling
& Heating

- Vertical dosing system in pump unit aids in easy suction
- Bottom-up filling combined with a shut-off nozzle ensures an accurate and clean fill without air entrapment
- The indexer is absolutely smooth with options for mechanical and servo
- Tool-less adjustments coupled with faster reproduction of settings (aided by position indicators and tri-clover fittings) make changeover quite effortless
- The bulk of the changeover is done by raising or lowering the turret (in case of LIMBUS) and the mounting plate (in case of CONDOR)

Optional Equipment

- Tube cleaning
- Agitator
- Saddle-fold
- Additional ejector
- Multi-colour filling
- Gas flushing before & after filling
- Profiled / Curve seals
- Leakage Detection
- Option of servo drives for various stations
- CFR21 Part 11 Compliance



Trimming

LIMBUS SERIES

Compact rotary models for low and medium speeds.
Available in speeds from 35 to 150 tpm



CONDOR SERIES

Models with linear design for high-speed requirements.
Available in speeds from 180 to 300 tpm



Tube Filler Program

MODEL	LIMBUS 35	LIMBUS 70	LIMBUS 100	LIMBUS 150	CONDOR 180	CONDOR 225	CONDOR 300
TYPE	ROTARY				LINEAR		
NO. OF HEADS	1	1	1	2	3	4	6
CAPACITY * (Max Tubes/min.)	35	70	100	150	180	225	300
TUBE SIZE RANGE							
Diameter (Min-Max)	10 - 50 mm				10 - 28 mm		
Length (Min-Max)	50 - 250 mm						
UTILITIES							
Power	3.5 Kw** 7.5 Kw***	4.5 Kw** 9 Kw***	5.5 Kw** 10 Kw***	6 Kw** 12 Kw***	7.5 Kw** 8.5 Kw***	8.5 Kw** 19 Kw***	19 Kw** 33 Kw***
Compressed Air (at 6 kg/cm pressure)	12 cfm	25 cfm	40 cfm	50 cfm	80 cfm	120 cfm	150 cfm
Water Circulation (at 12°C)	3 LPM	5 LPM	10 LPM	13 LPM	15 LPM	18 LPM	20 LPM
FILLING RANGE	3 - 300 cc				3 - 150 cc		
FILLING ACCURACY	± 1%						
OPERATOR	1			2			

* Final output depends on tube diameter, fill volume, tube blend and product characteristics

** For metal tubes

*** For laminate / plastic tubes

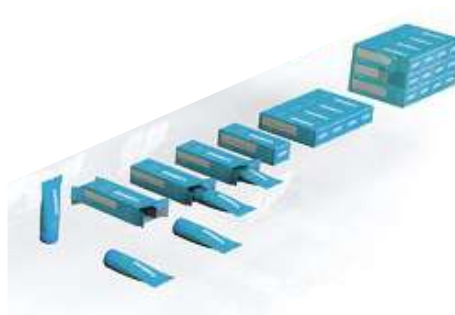
Tube Packaging Lines

SUBNIL specialises in a complete Tube packaging line that consists of a tube filler, cartoner, bundler for the cosmetic, pharmaceutical, personal care, food and several other industries.

Irrespective of the size of a customer's operation; whether it is a small-scale unit or a large multinational, our primary goal is to ensure the smooth, uninterrupted journey of the product from empty-tube stage to boxes shipped out of the factory. Towards this end, we work out the most suitable combination that makes up each tube line.

The smallest line starts with a 35 tpm tube filler connected to either a small vertical cartoner or a horizontal intermittent cartoner. The fastest line from tube filler to bundler produces more than 18,000 tubes/hour.

When used in tandem, optimum efficiency is achieved with only a few personnel. The transfer of products from tube filler to cartoner and bundler is absolutely smooth. And intermediate conveyors, interlocks between machines and other back-up collection arrangements are provided to ensure that the throughput coming out of the tube filler becomes the throughput of the line.



Line Program

TUBE FILLERS	CARTONERS	BUNDLERS
LIMBUS 70 & 100	MERLIN 120XC	OSPREY 18
LIMBUS 150	MERLIN 180XC	
CONDOR 180	MERLIN 180XC	OSPREY 18 or 30
CONDOR 225	MERLIN 240XC	OSPREY 30
CONDOR 300	MERLIN 300XC	



SL 100



The **SL100** line consists of:

LIMBUS 100

Top speed in single-head models.

+

MERLIN 120XC

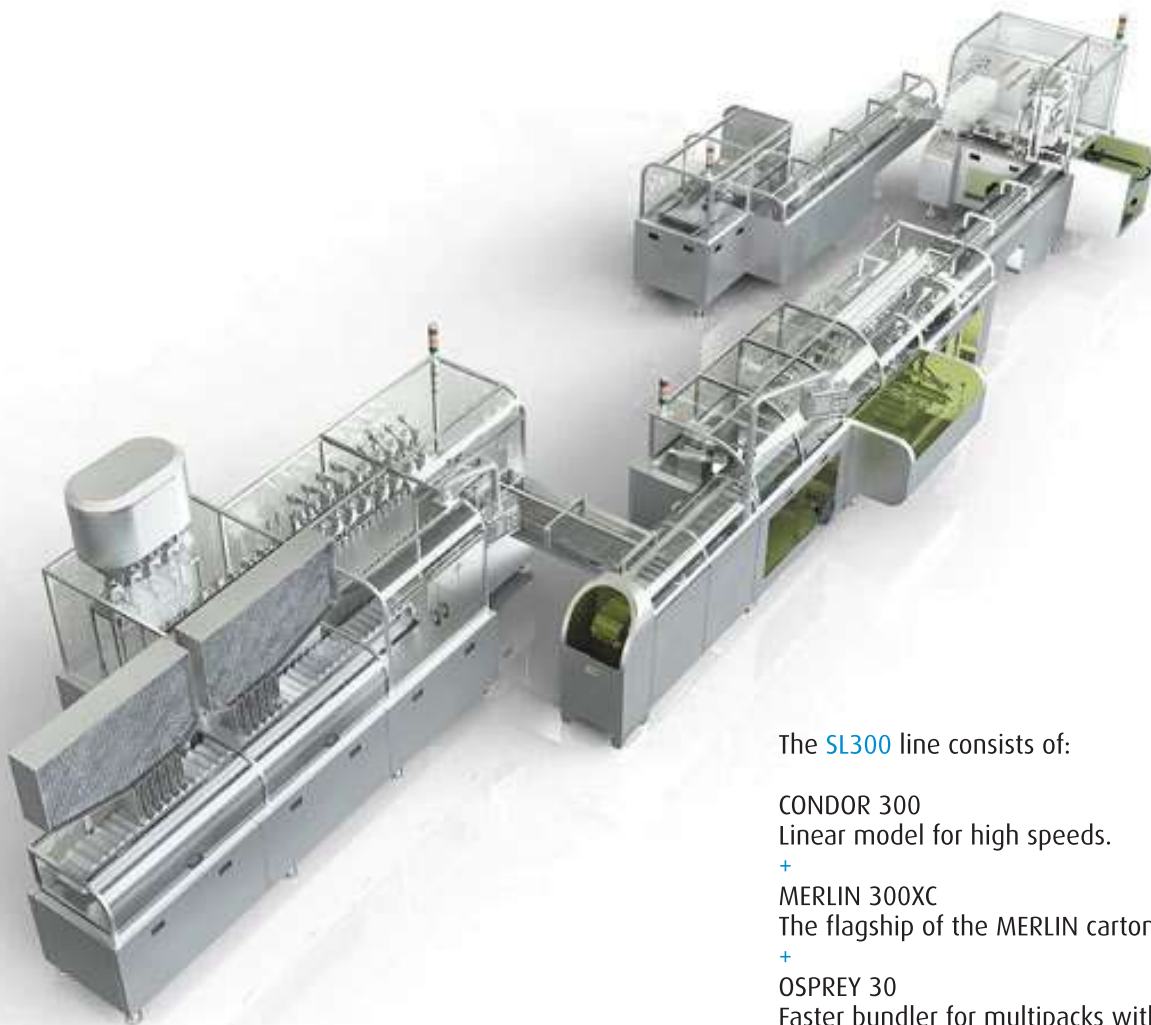
First of the 5 models in the MERLIN series horizontal continuous motion cartoners.

+

OSPREY 18

Ideal bundler for people who believe in quality, tamper-proof packaging as well as aesthetic value of their multipacks.

SL 300



The **SL300** line consists of:

CONDOR 300

Linear model for high speeds.

+

MERLIN 300XC

The flagship of the MERLIN cartoners

+

OSPREY 30

Faster bundler for multipacks with smaller matrixes.

Cartoners & Bundlers

SUBNIL's evolving intent has resulted in innovating cartoners with speeds of cartoners starting from 40 cpm and going up to the 360 cpm rate which its flagship, the MERLIN 300XC, boasts. Need of equally faster & reliable end-of-line solution pushed us towards making bundlers to match the respective line speed.

SUBNIL's Cartoner are used for tubes, bottles, vials, blister-strips, soaps, pencils, pouches, sachets, bearings are just a few of the varied products that are easily handled - individually, collated or in combination with other products or inserts.

SUBNIL's bundlers are meant for forming multi-pack of cartons or any cuboid products. Running at low power and at much lower seal temperature, this makes it a perfect machine for end-of-line packaging. Ophthalmic, Injectable, tablet/capsule and other heat sensitive applications are ideal set-up for this bundlers compared to any other form of film-wrapped options.

SUBNIL exists, quite simply, to offer sound, custom-made solutions that can link fluently with any upstream primary packing machine, and also follow through to the end of the line.

MERLIN SERIES

Horizontal Continuous Motion Cartoners for medium and high speeds. 120 to 360 cpm



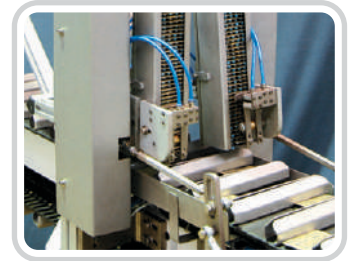
MERLIN SERIES

The flagship model MERLIN 300XC is a cartoner born for the “faster time-to-market” age. This machine is poised with a top speed of 300 cartons per minute to become an indispensable link in the customer's manufacturing process.

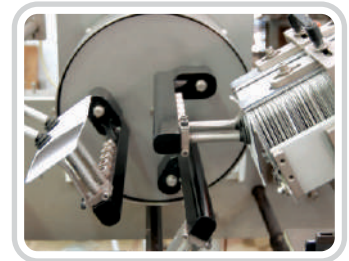
At the heart of these machines is the rotary carton pick-up system which grabs the carton from the magazine, pre-breaks it by counter suction, and then loads it smoothly into the carton chain. The carriers in the chain then hold the carton squarely till product-loading and carton-closing is completed.

Features

- Auto transfer / in-feed system for various products
- Long Powered conveyor for stacking cartons
- Rotary pick-up for pre-folded leaflets
- Leaflet folding & feeding
- Leaflet pre-insertion (for delicate products)
- Easily accessible drives isolated from the product path
- Quick & easy, tool-less changeover
- Printing by embossing / debossing / ink-jet
- Tuck-in / Hot-melt / Cold glue carton closure
- Centralised lubrication
- Vision / Bar-code security system



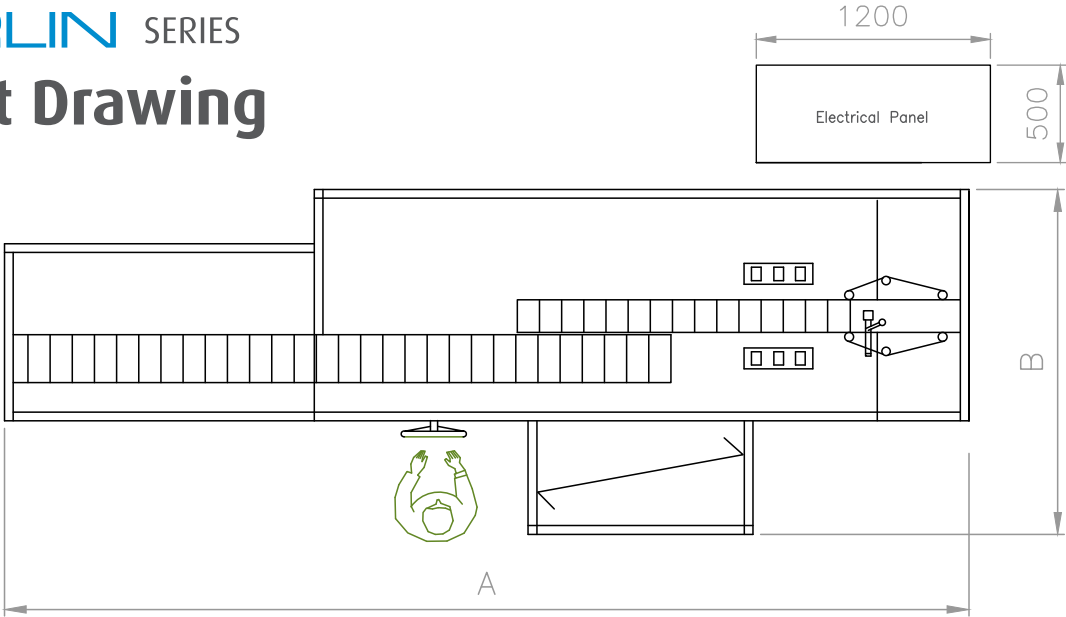
Blister In-feed system



Carton Pick-up & Pre-breaking

MERLIN SERIES

Layout Drawing



MODEL	A	B	TOTAL HEIGHT
MERLIN 120XC	4700	1700	1800
MERLIN 180XC	4700	1700	1800
MERLIN 240XC	7600	1900	2000
MERLIN 300XC	7600	1900	2000
MERLIN 360XC	7600	1900	2000

KYTE SERIES

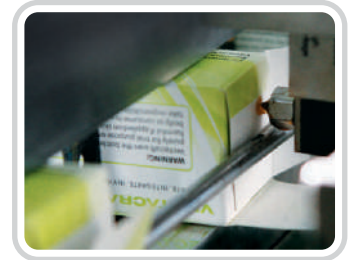
Intermittent Cartoners for collated products.
Speeds from 20 to 60 cpm



KYTE SERIES

Mainly meant for difficult products which cannot be handled in a continuous motion model, these machines can even collate products before being loaded into the carton. Pencils, soaps, candles, blisters are a few examples of these.

Also, larger products which do not require higher speeds are ideal for use in this series of cartoners, wherein various models are available.



Carton Closure - Gluing

Features

- Automatic in-feed/transfer systems for varied products
- Quick tool-less changeover
- Leaflet feeding
- Leaflet pre-insertion (for delicate products)
- Different types of coding
- Tuck-in / Hot-melt carton closures
- Centralised lubrication system

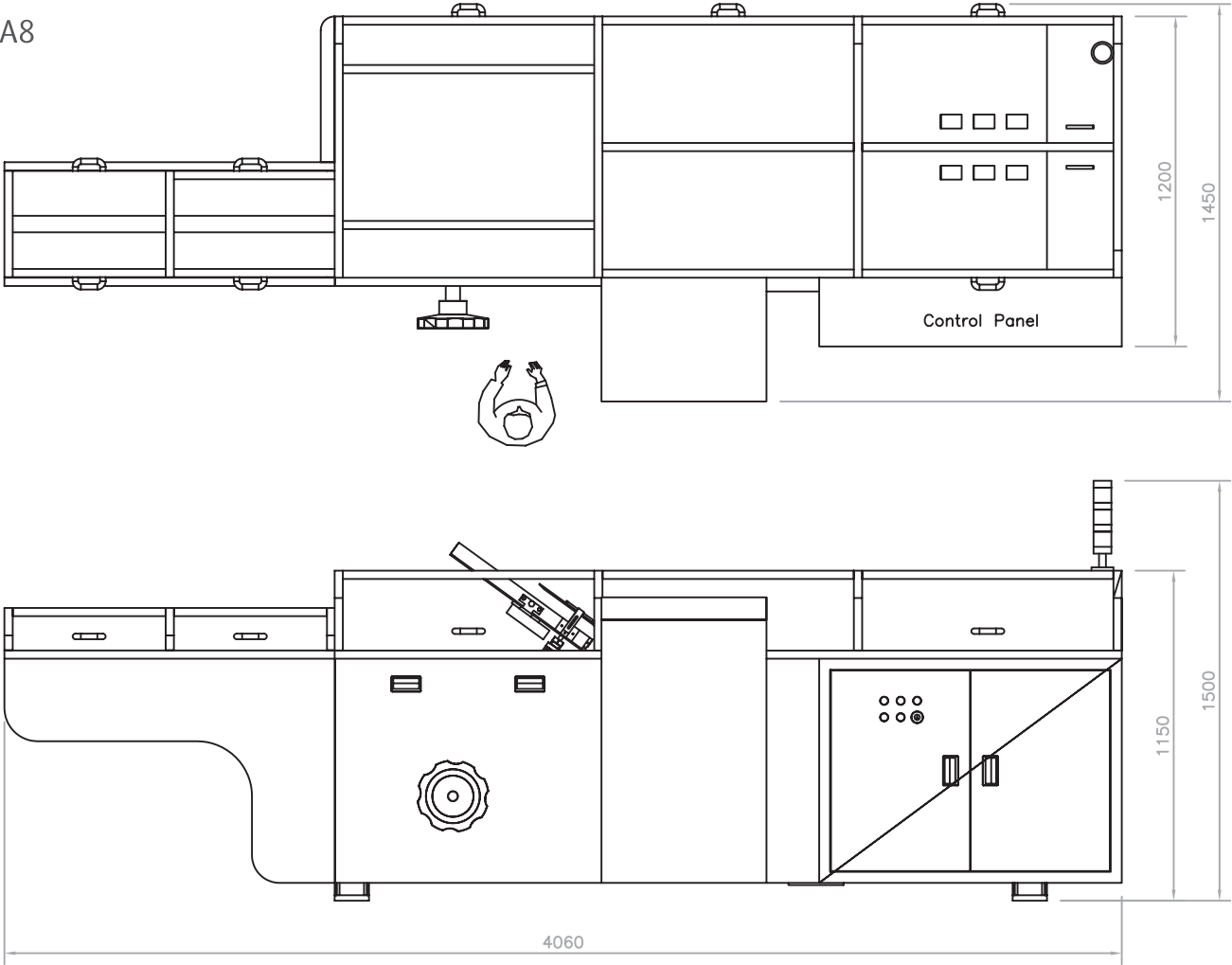


Carton Outlet

KYTE SERIES

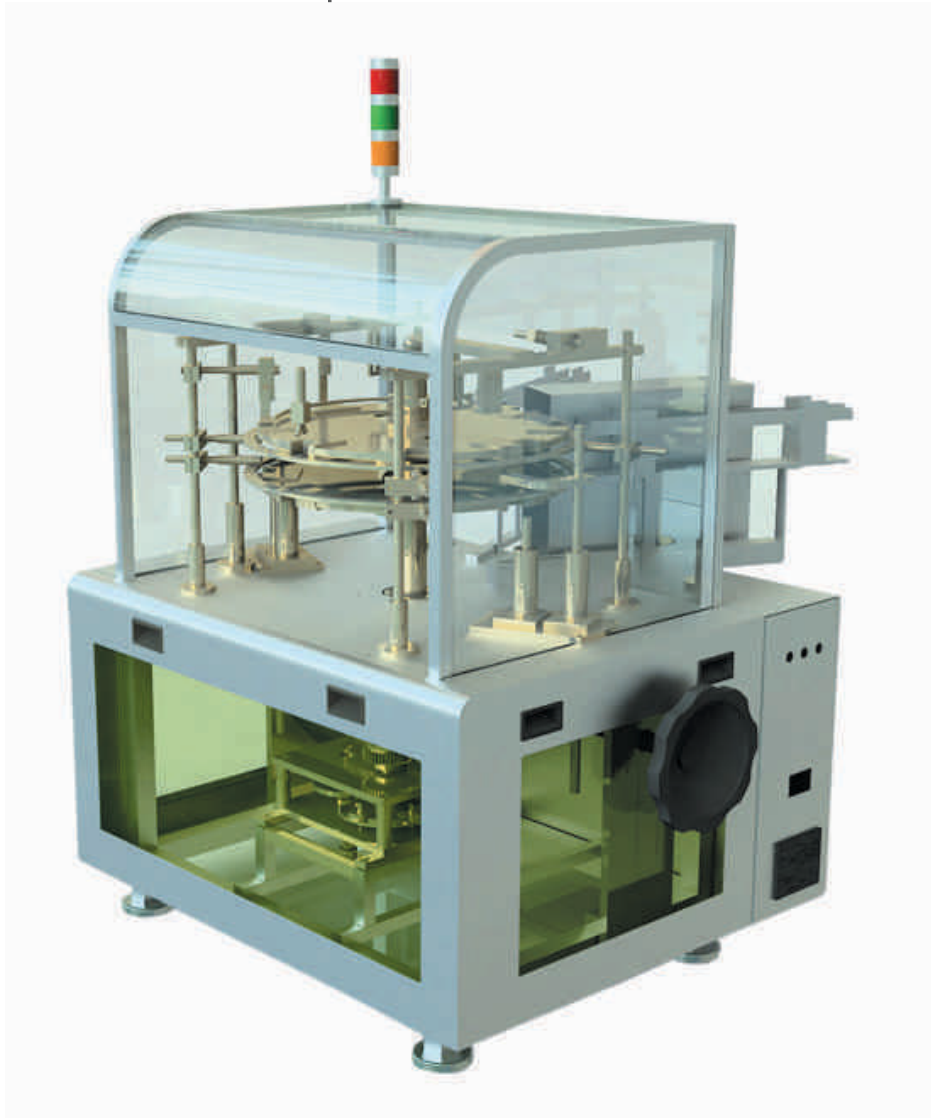
Layout Drawing

KYTE A8



HARRIER SERIES

Vertical Cartoner for low speeds



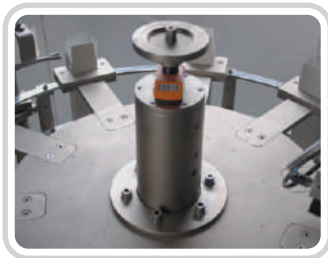
HARRIER SERIES

This vertical model is mainly of a semi-automatic kind. The manual loading/insertion of product helps accommodate small/multiple/odd-shaped products although auto in-feed is available for many products. Maximum capacity - 60 cpm.



Carton Erection

The small footprint ensures this cartoner can be moved around to be used for any new product in a new section.

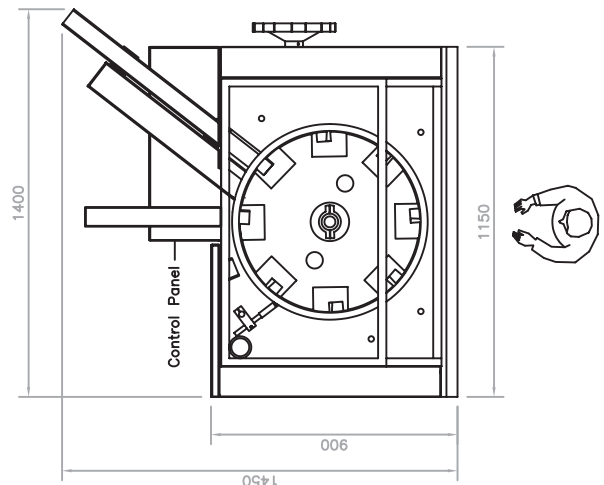


Product Loading Station

Features

- Automatic in-feed/transfer systems for varied products
- Quick tool-less changeover
- Leaflet feeding
- Different types of coding
- Tuck-in / Hot-melt carton closures
- Centralised lubrication system

Layout Drawing



Cartoner Program

MODEL	MERLIN 120XC	MERLIN 120XC6	MERLIN 180XC	MERLIN 240XC	MERLIN 300XC	KYTE A4	KYTE A6	KYTE A8	HARRIER
TYPE	HORIZONTAL								VERTICAL
CAPACITY (Max. cpm)	120	120	180	240	300	60	60	60	60
CARTON SIZE RANGE									
Length (Min-Max) in mm	60 - 200	75 - 220	60 - 200				75 - 220		50 - 220
Width (Min-Max) in mm	20 - 65	25 - 115	20 - 65				25 - 125	25 - 150	20 - 100
Height (Min-Max) in mm	15 - 55	25 - 80	15 - 55				25 - 80	25 - 100	15 - 80
OPERATION*	C	C	C	C	C	I	I	I	I
PITCH (Product)	4"	6"	4"	4"	4"	4"	6"	8"	10-Station
UTILITIES									
Power	2.75 - 5 Kw		3.5 Kw	5 - 8 Kw		3.5 - 8 Kw			2.5 Kw
Compressed Air (at 6 kg/cm² pressure)	2 - 3 cfm		3 cfm	4 - 5 cfm		2 - 3 cfm			5 cfm
OPERATOR	1								

* C = Continuous, I = Intermittent

OSPREY SERIES

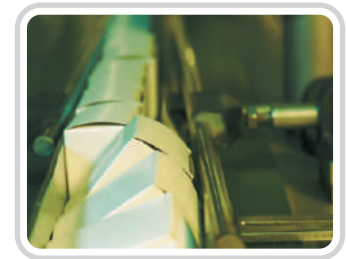
Collating & Wrapping of cartons and cuboids



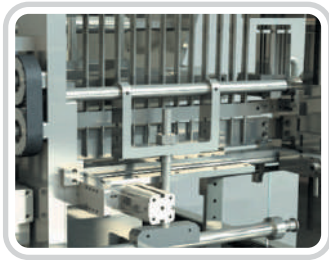
OSPREY SERIES

The OSPREY collates cartons or cuboid-shaped products in a given matrix, wraps BOPP film around it, envelope-folds the ends and then seals it from three sides to form a sturdy, aesthetic multipack.

Products handled, besides cartons, include soaps, biscuits, DVDs etc. A choice of collation options in 2D as well as 3D makes it a versatile machine.



In-feed Conveyor



Cutter Unit

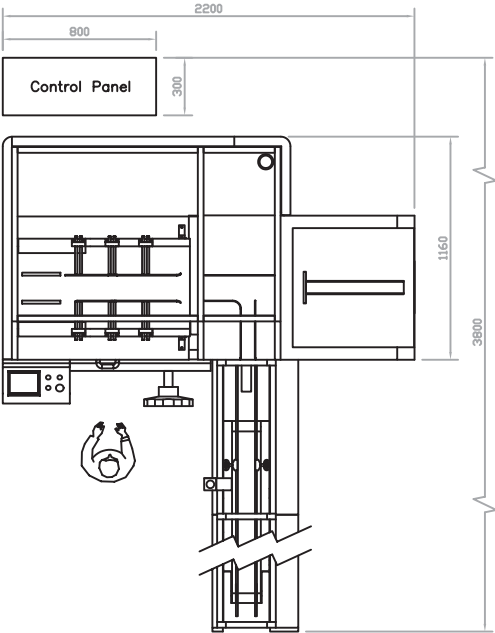
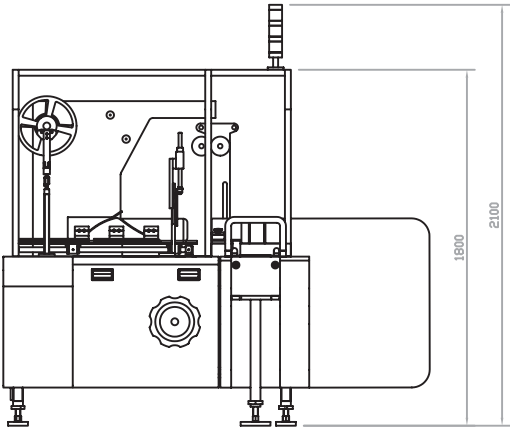
Features

- Automatic transfer from upstream machine
- Quick changeover with mechanical memory
- Tear-tape for film
- Use of printed film
- Centralised lubrication system

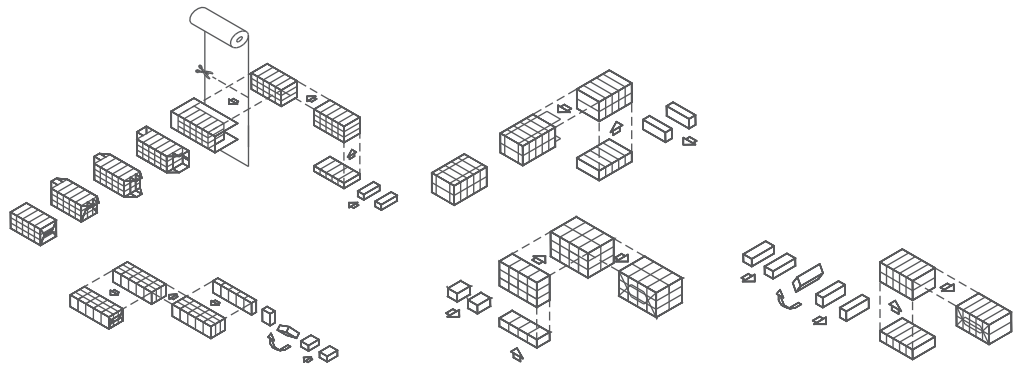
OSPREY SERIES

Layout Drawing

OSPREY 18 & 30

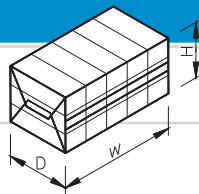


Collation Types



Bundler Program

MODEL	OSPREY 18	OSPREY 30
CAPACITY * (Multipacks/min.)	18	30
UTILITIES		
Power	2.75 Kw	4 Kw
Compressed Air (at 6 kg/cm ² pressure)	5 cfm	8 cfm
MULTIPACK RANGE		
W + H	400 mm (max)	325 mm (max)
H + D	375 mm (max)	300 mm (max)
WRAPPING MATERIAL	BOPP / HM HDPE film (Heat-sealable)	
OPERATOR	1	



* Depending on collation matrix and carton / product size.

Our Customers





CORPORATE OFFICE

#4, 3rd Floor, B-7 Vasant Arcade,
Dr. Nelson Mandela Marg, Vasant Kunj,
New Delhi - 110070 (INDIA).
Tel: +91-11-47476261
+91-11-47476280

WORKS UNIT - 4

Plot No. F/3 & F/4, Saggada Prime Estate,
Devdal, Kaman Road, Naigaon (East),
Palghar - 401208, Maharashtra. (INDIA)
Mob: +91-8530633456

WORKS UNIT – 1 & 2

Building No. 1 & 2, "A" & "B" Wing,
Unique Industrial Estate, Survey No. 36,
Dhumal Nagar, Vasai (East),
Dist. Palghar-401208, Maharashtra. (INDIA)
Tel: +91-9607940372

WORKS UNIT - 5

Plot No. A/4, Saggada Prime Estate,
Devdal, Kaman Road, Naigaon (East),
Palghar - 401208, Maharashtra. (INDIA)
Mob: +91-8530633456

WORKS UNIT - 3

Plot No. 5 and 6, Intertech Industrial Estate,
Survey No. 62, Behind Burma Shell Petrol Pump,
Vasai (East), Dist. Palghar – 401208.
Maharashtra. (INDIA)
Tel: +91-9607910032

WORKS UNIT - 6

Plot No. 281, Sector - 6,
IMT Manesar, Gurugram – 122050.
Haryana. (INDIA)
Tel. +91-12-44256990

+91-8600132332
sales@intertechglobal.com
www.intertechglobal.com