

MOLIND ENGINEERING LIMITED
COPAR – COLLATING AND PARCELLING MACHINE



COPAR Machine is a fully automatic over-wrapping machine with two modules – the Collator module and the Parcellor module.

The collator module conveys the Individual packets on a conveyer belt to a collating device where the single packets are collated to form two or three- dimensional configuration.

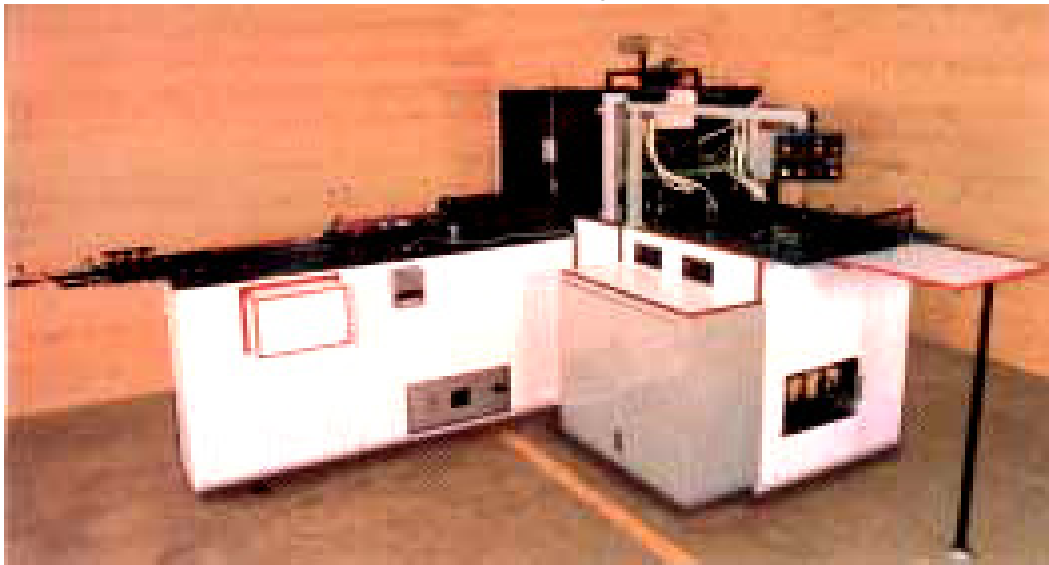
The Parcellor Module cuts the required length of paper or film and over wraps the collation performing the side folds and sealing on three sides.

The machine is built from high precision components having the desired metallurgical and heat treatment characteristics resulting in lower wear and tear, longer life and less maintenance.

WORKING PRINCIPLE

: Individual or set of product is fed into COPAR machine on a conveyer belt. The individual collation of the product is done with the help of pneumatic pushers. A multistory of the collation is then made with the help of base pushers and side brush holders. On the formation of three-dimensional configuration the bundle is pushed forward to the over wrapping area with a separate pusher.

In the wrapping area the bundle is over wrapped with either of Kraft paper or BOPP film. Initially the long sealing is done and while the bundle travels forward the folders do the side folding and seal the ends.



TECHNICAL SPECIFICATIONS:

Product:	Rectangular or square shaped products.		
Product Range:	Length (mm)	Width (mm)	Height (mm)
Bundle Size (Maximum)	400	200	75
OR Bundle Size (Maximum)	375	200	100
Bundle Size (Minimum)	150	70	40
OR Bundle Size (Minimum)	100	100	75
Wrapping material:	Kraft Paper / BOPP film		
Wrapping material size limits:	Minimum (mm)		Maximum (mm)
Reel width:			510
Reel Diameter:			400
Reel core diameter:	65		150
Output:	15 bundle per minute.		
Machine Dimensions:	Length (mm)	Width (mm)	Height (mm)
	3850	2400	2050
Weight:	750 Kg. (approx.)		
Electrical supply:	415 V, 3 Phase- 4wire, 50 Hz		
Power:	1.5 kW		
Air requirement:	350 Lt./min of free air		
Air pressure at machine:	4 to 6 Bar		

FEATURES:

- ❖ Application of pneumatic system, controlled by PLC & solid state proximity
- ❖ Sensors for flexible, fail safe & users friendly operation.
- ❖ Print registration system
- ❖ Scissors action for film/paper cutting knives
- ❖ Components in contact with product are made of stainless steel
- ❖ Special arrangements for ease of loading/unloading of film/paper reel
- ❖ Use of VFD for in feed conveyer for infinitely variable & step less speed control
- ❖ Digital temperature controllers with solid state relay for heater on-off