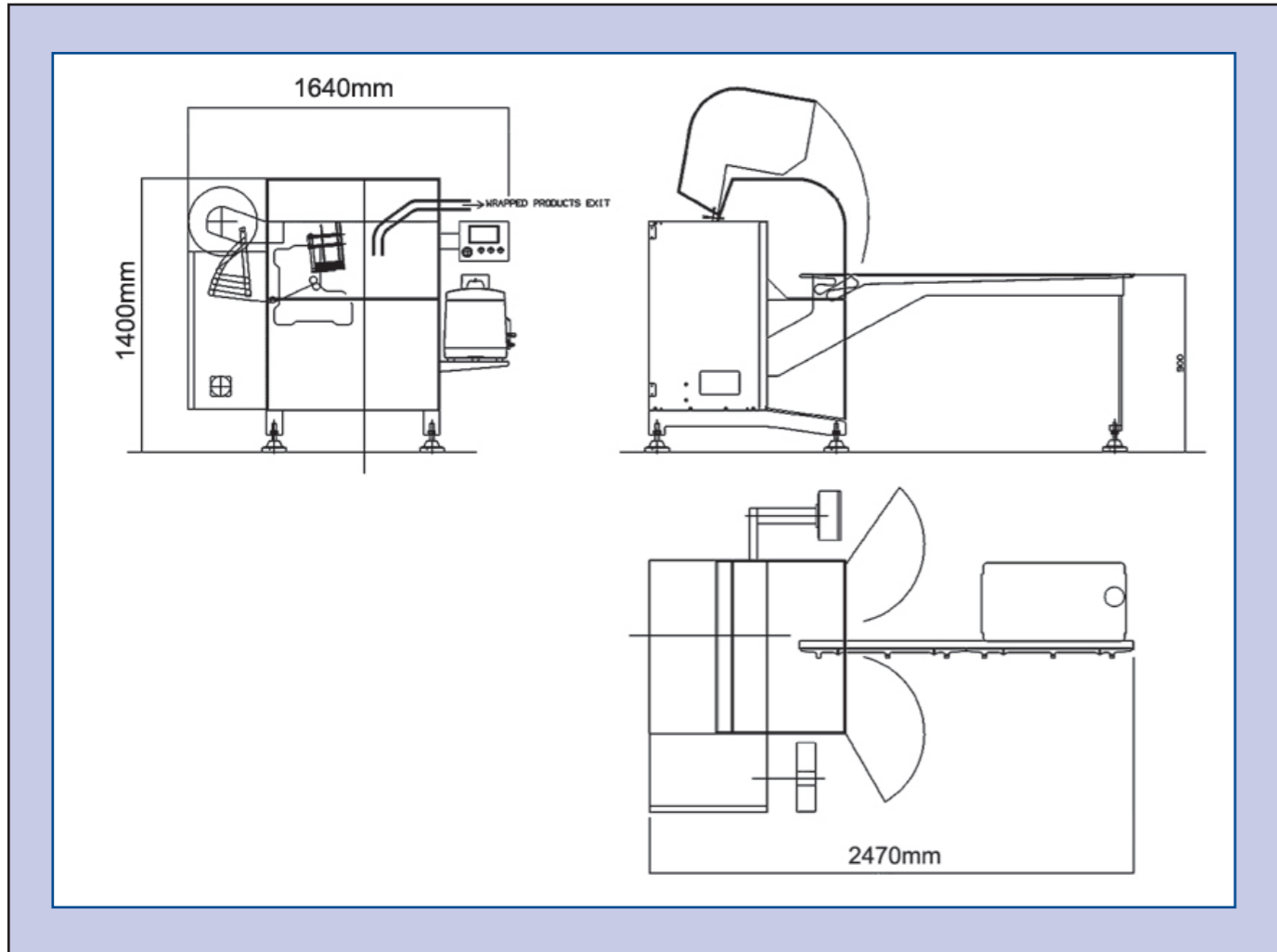


Floor Plans



A.M.P-Rose



NRI0 Neapolitan Chocolate Wrapping Machine



Technical Specifications

Machine speed:	Machine power:	Glue unit:	Compressed air:	Nett weight:
Up to a maximum of 150 pieces/minute	3kw	4.7kw	0.2 m ³ /min. @ 3 BAR	850kgs



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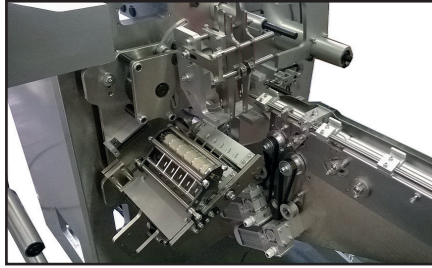
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Represented by;



A.M.P-Rose NR10 Neapolitan Wrapping Machine

The NR10 has been developed specifically to wrap small square and rectangular chocolates in fold wrap style.



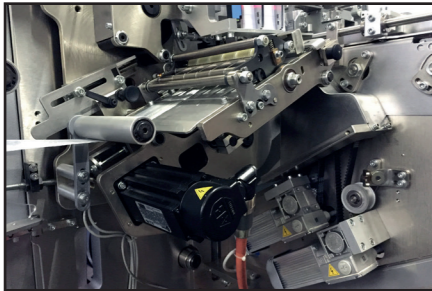
The machine has been designed to use either single or double wrappers, with the outer paper taken from a stack of pre-cut labels rather than the more common reel-fed systems. By using pre-printed labels, the chocolate manufacturer can pack small quantities of product, which is particularly useful for the smaller volume clients such as marketing promotions, corporate gifts etc.

As a result of its modular construction, the machine can be quickly and easily size-changed at a very reasonable cost.

The machine has been designed for ease of operation, low running costs and flexibility.

Sequence of Operations

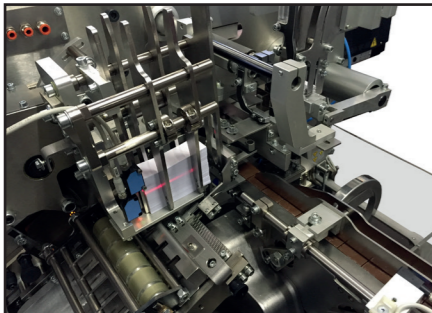
The products are manually placed onto the stainless steel infeed tray, usually from a plaque. They can alternatively be fed from an automatic belt conveyor system fed directly from the moulding plant, via an aligner-feeder belt system.



The infeed belt system transports the products in a single row to the final infeed belt of the wrapping machine. Photo-electric sensors along the length of the infeed maintain the correct number of products on the belt, thereby providing the optimum feed whilst at the same time alleviating pressure and damage to the product. The machine will stop automatically when there is insufficient product on the belt.

When the sensors detect a product in position the foil feeding system is automatically activated, thereby keeping wrapper wastage to a minimum. A pair of servo-driven paper feeding rollers delivers the correct length of wrapping material from the reel, where a paper gripper unit takes over. Wrapper blockages are kept to a minimum thanks to the specially designed air bed and paper transfer system.

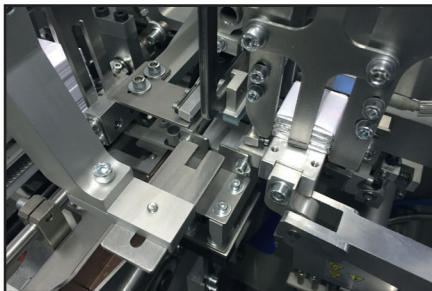
Once the correct length of paper has been fed, it is cut using a pair of scissor knives. The cut length accuracy is achieved by the use of a servo motor, thereby minimizing paper waste. The paper length as well as other machine settings can be adjusted through the HMI, which has both Operator and Maintenance levels.



The pre-cut and printed outer labels are loaded to a stacker and are removed one by one by an innovative label draw-off system (Patent Pending). This unit ensures that each label is placed over the inner foil wrapper in the correct position. The stacker is provided with a low-level sensor that will stop the machine when the stacker needs to be re-filled.

Where gluing is required, one or more spots of hot melt glue are applied to the wrapper before the tucking stages. The glue can be used to seal either just the outer wrapper, or both the inner and outer wrapper together if preferred. As an alternative, a cold glue system can be supplied as an optional extra.

After the glue has been applied, both foil and label are transferred to the wrapping station, where the chocolate piece is elevated through the pre-cut wrappers. A top control unit is provided to ensure that the product is securely held, minimizing the risk of the chocolate or label moving as it is wrapped.



The chocolate piece is held by grippers whilst the side tucker units carefully create the first folds underneath the chocolate. A moving tucker is used for the rear fold, and the final fold is created to finish the wrap as the chocolate is transported to the stacking (discharge) unit. The discharge unit is provided with a stacker which arranges the wrapped products first vertically and then horizontally, providing sufficient pressure to allow the glue to harden, whilst at the same time not damaging the products. The final wrapped products are delivered horizontally, on their ends, which makes packing into outers a simple job for the operator.

Style of Wrapping

- A single plain foil or foil/paper wrapper, with or without gluing*
- An inner foil or foil/paper wrapper plus glued paper outer as a band wrap
- An inner foil or foil/paper wrapper plus glued paper outer as a full envelope wrap

*In the case of single wrappers, if required a photo-electric cell registration unit can be provided for printed foil.



Size Range

- Length: 20-55mm
- Width: 20-40mm
- Thickness: 4-8mm

*Note: Sizes outside this range will be considered

Wrapping Materials

- | | |
|----------------------|---|
| Inner wrappers: | Aluminium foil, with or without paper laminate |
| Outer wrapper: | Pre-cut paper labels |
| Reel core size 70mm. | Maximum reel diameter 300mm. Maximum reel width 90mm. |

Features

Low Cost and Fast Size-Changes

The NR10 is extremely versatile and can wrap products of various sizes and shapes. Machines can be provided with one or more sets of size-change parts. A change of size can take as little as 30 minutes to perform.

Simple to Operate and Maintain

The machine has been designed with the user in mind. The machine controls are simple and easily accessible to the operator via the conveniently located HMI unit. The mechanisms have been designed in such a way that they can be understood by non-technical personnel, saving time and money on maintenance.

Low Running Costs

The machine is protected by a main overload clutch, and sensors at various points on the machine will detect faults such as paper or product jams, thereby protecting the machine and minimizing wasted materials. A centralized lubrication system ensures that all moving parts can be lubricated from a single point.

Thanks to its simple design, the machine requires few running spares, keeping costs and inventory to a minimum.

Health and Safety Assured

Electrically interlocked guards provide safe machine operation and are designed so that the machine can be accessed for cleaning and maintenance purposes. Manufactured from clear acrylic, they also provide excellent visibility to the operator.

The machine meets current Health & Safety and 'CE' standards.

Optional extras:

- Photoelectric cell registration unit
- Automatic paper reel splicing
- Automatic centralized lubrication
- Cold glue system instead of standard hot-melt system
- Discharge conveyor belt