

Roll Feeder



The unique cutting system for non-woven fabric

The new AC, Automatic Cutting Systems can now be equipped with a new "ROLLER FEEDER", which has been specifically developed for feeding four layers of non-elastic material, such as non-woven fabric, in roll form.

The right way to cut

Technical Specifications

- Full rolls can have a maximum diameter of 25" (635mm) with 3" (76-mm) inner paper core.
- Each roll is loaded onto an independently driven, inline roll-feeding-shaft which deposits the fabric onto a synchronized material feeding belt for a horizontal transport into the cutting area.
- The belt allows for the simultaneous feeding of all four fabric layers with uniform tension and alignment together without any influence by the distance of each roll to the machine.
- Independent roll drives are achieved with inverter controlled three-phase AC motors capable of reversal rotation and accurate feed rate without regard to the rolls outer diameter.
- Roll shaft with integrated pneumatic bladder insures a firm grip of the roll and is inflated/deflated by means of an air valve conveniently located at the front of the shaft.
- Accurate roll alignment is achieved with manually adjustable deadlocks, which are placed on the side opposite to operator visual inspection of alignment is added by gridlines.
- The roll radius control accurately feeds the material without additional tension.
- The belt movement is controlled by a brushless moter and allows a perfectly synchronised feeding, in phase with the machine's trolley movement.
- Optic sensors are used for the detection of product presence and ensure the correct control to manage the end of material condition.
- The roll movement is assisted by a vertical balancer, which can be equipped with replaceable cylinders in order to give the proper tension and the right direction to the feeding material.
- Inductive proximity sensors are used to control the balancer position and to properly manage the remaining end of material condition, the use out adhesive tape bonding the material's inner flap to the paper core saves operator time.
- The un-feeding function allows reversal of the roller direction in order to reroll all remaining material in cases where production needs to be stopped before all material is used.
- A fiber optic intelligent node connection for each layer of material provides for independent operation and adjustment of setting parameters.
- An independent display for each layer provides for faster settings and operation.
- A phased-stop provides protection and control in the case of the end of material condition or for inspection as per operator decision.
- Safety is ensured by closing of the rear area with two illuminated mushroom buttons and by two longitudinal optical barriers protecting the remaining perimeter surface.

We would be pleased to work on specific projects according to customer requirements