



DEVELOPMENTS AND TECHNOLOGIES

Since its foundation in 1973, Matex has always pursued the goal of innovation. Thanks to this focus and a lot of work in research and development, Matex have always produced technologies and applications never seen before, capable of significantly improve the performance of the machines.

Below you can find some them:

CLEAN-UP

One of the most important passage on coating plants is the cleaning of release paper or any other support that has to be coated. A lot of solutions have been designed and developed during these years. Probably one of the most successful one is the adhesive sheet rolls covered to capture the dust and dirt. But replacing the adhesive sheet it is expensive and cause a lot of waste. Cleaning roller also need second roller with adhesive surface to remove dirt from first roller. For these reasons Matex developed the new "CLEAN-UP" device. This solution includes a special rubberized roller which can collect and remove from the web all dust very efficiently. A special washing system afterward keep rubber surface always clean and sticky.

CUT&GO

This innovation has been designed and developed in order to cut and splice webs in automatic during production without need of operators. It is normally used in the lamination machine on coating lines. After preparing the new reel with adhesive tapes, this system in automatic keeps web tight, transversal cuts the old web and splice new web in fraction of second.

This allows roll change in a complete safe environment, reduces waste of material and grants a perfect splicing till 35 m/m about. Thanks to the high technology of the installed components and a dedicated software developed by Matex, Cut&Go can be used with a wide range of webs (e.g.: from strong cotton, polyester or coagulates support till very sensitive and elastic knit fabrics).

PRINTING HEAD

Latest developments on printing heads give the possibility to reach precision, repeatability and versatility at highest level. The high movement precision of the printing cylinder grants always the best results on design transfer or coating compound to the product. Independent micrometrics right-left side on ink tray permit to work keeping it inclined if necessary. Viscometer for temperature/viscosity of product combined with pumps for loading, unloading and dilution grant the constant monitoring of ink. The possibility to install dipping roller allows to transfer the ink from the tray to the engraved roller. *Finally, thanks to the last innovation "Automatic-Zero-Set" developed by Matex, the printing head can recognize in automatic the printing roll diameter and adjust the line speed drive as well as re-set gap to the back roll.*

B.K.A.

During its history Matex has realized different types of coating heads and knives, and because of this the accuracy of such machines has always been a top priority. In order to obtain an uniform coating knives has to be as rigid as possible and not being influenced by the pressure of compound and production speed. Matex patent B.K.A. (Bending Knife Adjustment) uses and new revolutionary system to fix knife to the knife holder. Respect to traditional coating heads which have knives tightly screwed in the full width to its support, B.K.A. adopts a floating system in order to separate knife holder from the knife, reducing natural flection till 90%.