

## TMI INTEGRATES FOR THE FIRST TIME THE LASER APPLICATION INTO THE HIGH PRODUCTION INDUSTRIAL BAGGING LINES

TMI has launched an important innovation to the market. It is the integration of the laser application into the industrial bagging lines. In other sectors such as retail (direct sale to the final consumer), the laser is used in the labeling, but until now, and according to our information, high production industrial packaging lines do not apply the laser in the labeling, therefore we can say that the adaptation of the marking to the industrial lines is innovative.

The main advantages are:

- Increased reliability (labels do not detach)
- Cost savings
- No need for maintenance: labeling machines need continuous maintenance, they are usually delicate machines, which contain small parts
- It is not necessary to change consumables (ribbon and labels)
- Increase in production, since no stops are necessary for this reason

Traditionally, in the industrial bagging lines, the bags are identified in two ways: either with marking (ink or thermal transfer), or with labeling (sewing directly to the bag or with an adhesive label). All these solutions are not without problems. Often the marking or labeling is done in dusty environments, in bags with irregular surfaces, and it is very common to have problems. Generally, the labels are easily peeled off, or the bags are dirty with dust and this generates many difficulties for ink markings, apart from not being 100% clean technologies.

Before devising the solution that we present to you, TMI took a first step by labeling the bag when it is empty, instead of when the bag is already full. With this small change of order, the irregular surface of the filled bag was avoided, and the problem of the dusty environment was considerably reduced, since the labeling was carried out before filling the bag of product and, therefore, before generating dust. However, there were still many problems, such as the maintenance required by the traditional labeler, the change of consumables (the ribbon and the label itself) and the lack of reliability that tags usually give. In fact, it is very common to find labels often attached to the bag press or to the conveyor belts, elements that are located after the labeling station.

