

Inventive packing with little friction

Bart Kroese, Sales Engineer, Angst+Pfister Netherlands
 Harrie Schonewille, Managing Director PMB UVA International, part of the VDL group

In supermarkets, a continual battle rages for the best spot on the shelf. To capture a prominent position on congested shelves, what's needed is attractive packaging that sets a product apart from the others. Innovative machines are needed to manufacture such packaging. These machines must combine high performance with flexibility, simple servicing and – last but not least – a return on investment. For more than fifty years, PMB UVA International has specialized in producing packaging machines that offer these advantages.

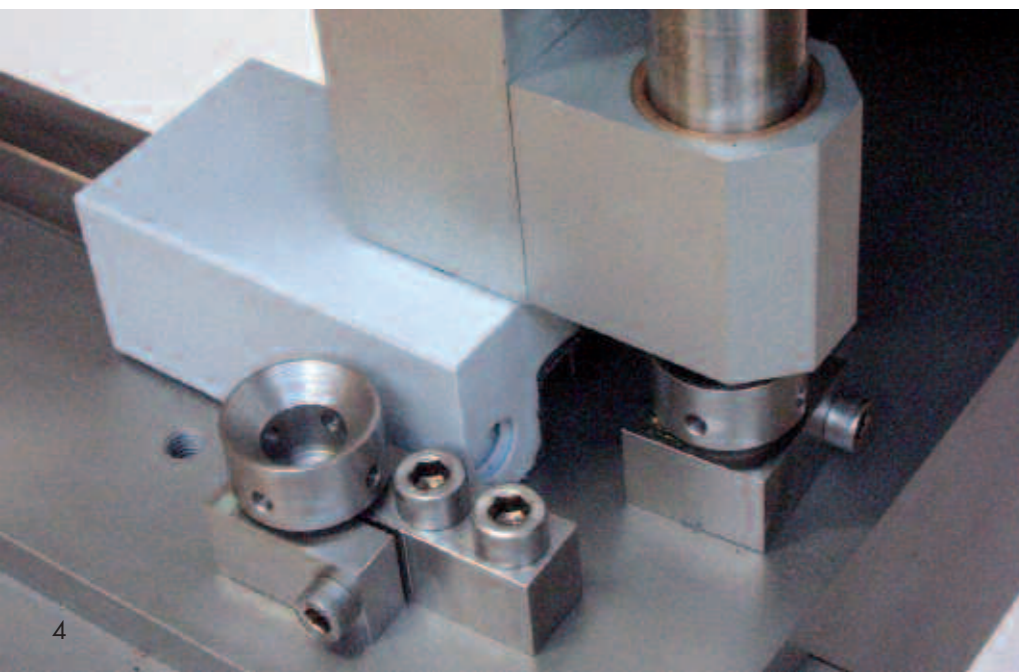
Nowadays, packaging isn't designed with just convenience and hygiene in mind; it's also a marketing tool. "The cheaper the product, the more important the presentation of the bag," explains Harrie Schonewille, Managing Director of PMB UVA. "Classy packaging induces the consumer to place a greater value on the bag's contents."

A team-up of two leading machine builders stands behind the PMB UVA name. PMB manufactures cigar-making machinery while UVA specializes in vertical packaging machines. For more information, visit www.pmb-uva.com.

Upright packaging, better presentation

The packaging industry is inventive, and the advertising world takes advantage of this. Edge seams give packaging stiffness. Resealable strips enhance convenience and product freshness. A "block bottom" is a flat bottom that enables the product to remain standing upright.

Guiding block made of the plastic ERTALYTE® TX

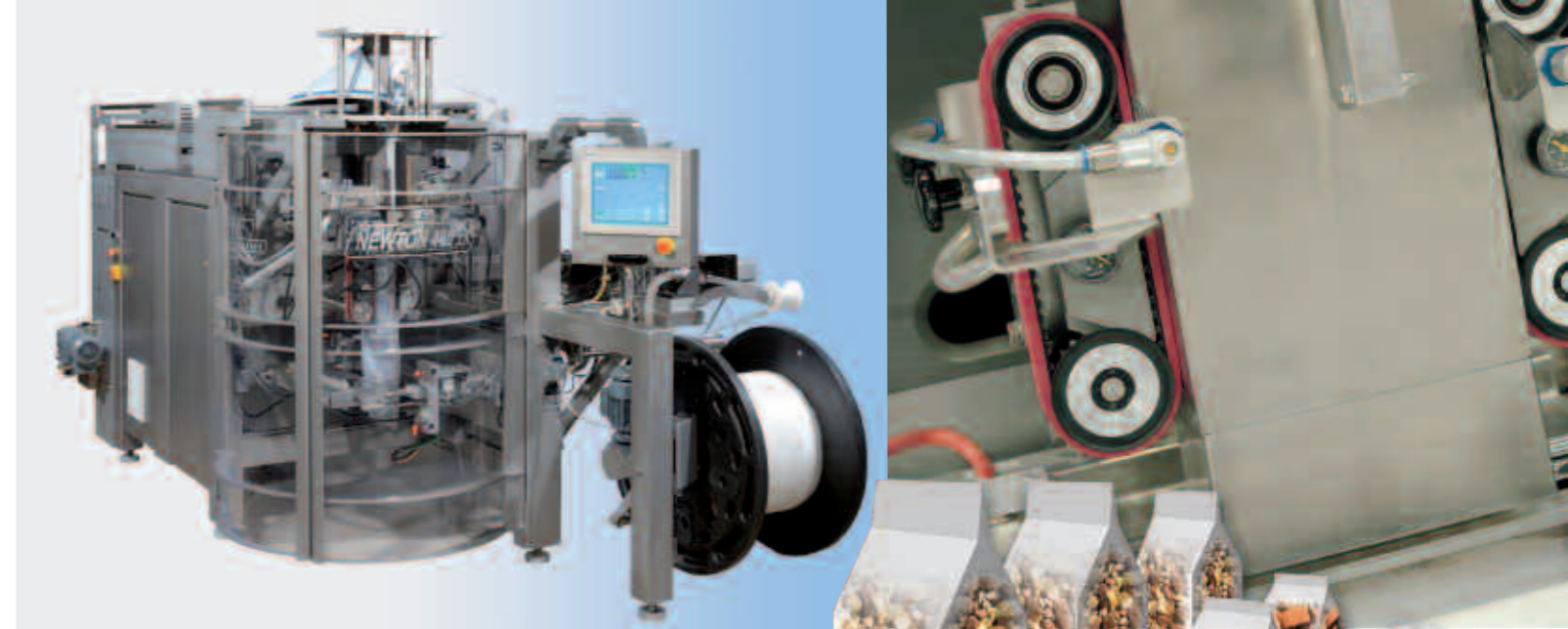


Packaging is increasingly being utilized as a presentation tool. One trend in packaging is the Doy pack or stand-up pouch. When one compares this with other packages lying jumbled in a bin, the presentation value of such orderly, vertically standing and thus eminently readable packaging maximizes the consumer impact.

One machine, different bag forms

Consumer behavior is fickle and unpredictable. Something can be hot today and passé tomorrow. PMB UVA has developed a forming, filling and sealing machine that is capable of producing different types of bags ranging from simple potato chip bags to complicated block bottom bags with resealable openings. These machines now also offer the unique innovation of being able to produce Doy packs as well. The new machines are ideal for manufacturers who want to respond quickly to mutable consumer preferences. "Different customers need this flexibility," says Roy van Hoof, a machine engineer at PMB UVA. A big advantage of the Newton 400 TX is that adding additional functions hardly increases changeover times. "Two to three minutes," estimates head engineer van Hoof.

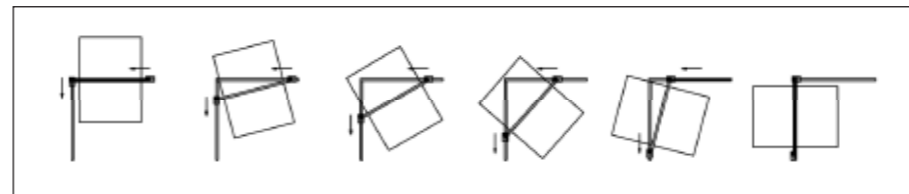
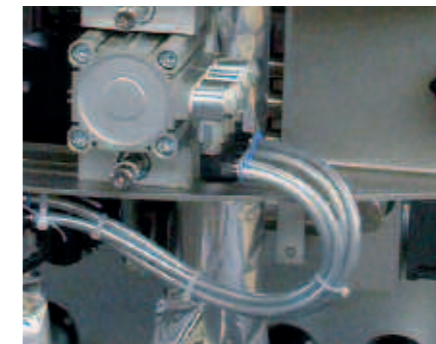
Those who deal with innovation face challenges. A standard guiding block made of plastic was unable to withstand the surface pressure of a nearly 100-kilogram set of cross-seal jaws. A sufficiently stiff and hard plastic with a low sliding friction coefficient might be just the thing to remedy the problem. PMB UVA thus went looking for a plastics specialist and immediately thought of Angst+Pfister because Angst+Pfister had already demonstrated its expert knowledge in the past and was currently delivering good results in its work with PMB UVA in the area of drive belts.



Newton 400 TX packaging machine

The technology

In order to produce Doy packs with the Newton machine, the cross-seal jaws have to be rotated 90 degrees. The machine must be easy and fast to convert to be able to continue producing other types of bags. The jaws are rotated by means of parallel shifting along the XZ plane, as shown below.



In order to make this process as simple as possible and to ensure fast cleaning, PMB UVA decided on a straight stainless steel strip over which a plastic guiding block is slid.

Design challenges:

- low sliding friction coefficient, even in dry operation;
- ability to withstand high pressure;
- good machinability.

Angst+Pfister's solution based on ERTALYTE® TX meets these requirements. ERTALYTE® TX is the ideal material for highly stressed slide bearings. It is particularly recommendable when lubrication is undesired but at the same time a long service life of the slide bearings is necessary.

The advantages of ERTALYTE® TX are:

- very low sliding friction coefficient, even in dry operation;
- very hard and wear-resistant;
- tight machining tolerances possible;
- dimensional stability;
- complies with FDA standards.

ERTALYTE® TX can be delivered as a ready-to-use part (machine cut) or in the form of semifinished plates and round bars in different sizes.

You too can utilize the advantages of modern slide bearing materials. Angst+Pfister would be happy to advise you in selecting the right material. Please use the reply card to order our documentation, or contact our specialists.

Your contact:
 Bart Kroese
 Angst+Pfister B.V., 3000 AT Rotterdam, Netherlands
 Telephone: +31 (0) 10 511 3944
 E-mail: b.kroese@angst-pfister.com