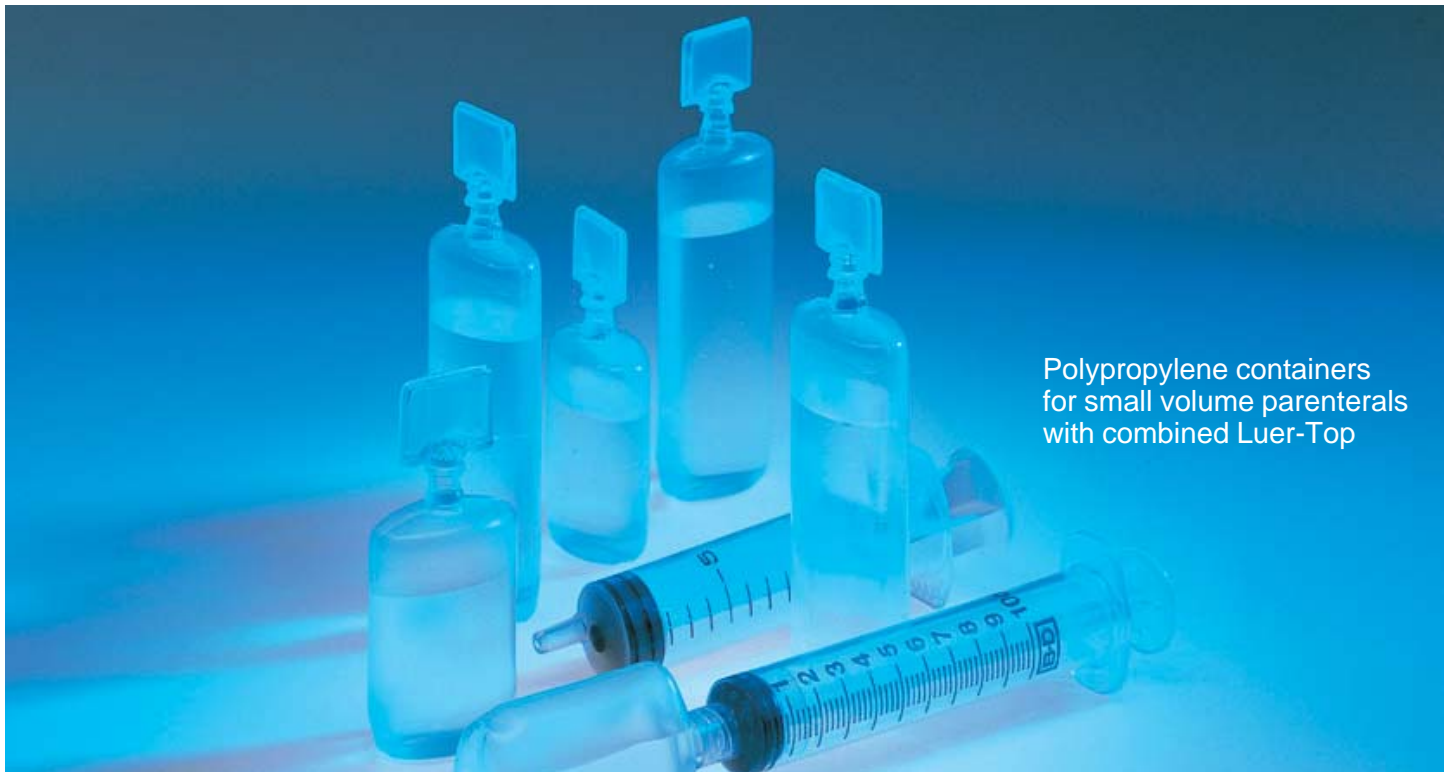


bottel

**INNOVATIVE
HIGHLIGHTS**

bottelpack[®]
ASEPTIC
SYSTEM

»bottelpack«[®]
*blow-fill
seal-technique*



Polypropylene containers
for small volume parenterals
with combined Luer-Top

Large and small volume parenterals, multi-dose and unit-dose containers for ophthalmic products, inhalation therapy - all these products have one thing in common - they show an impressive increase of presentations in plastic.

The convenience in use, the elimination of potential hazard in handling, the safe and environment friendly disposal are key factors for the use of this packaging material.

rommelag[®] has a reputation in the development of packaging technology

which has made it the leader in the specific field of blow-fill-seal applications primarily for the pharmaceutical industry.

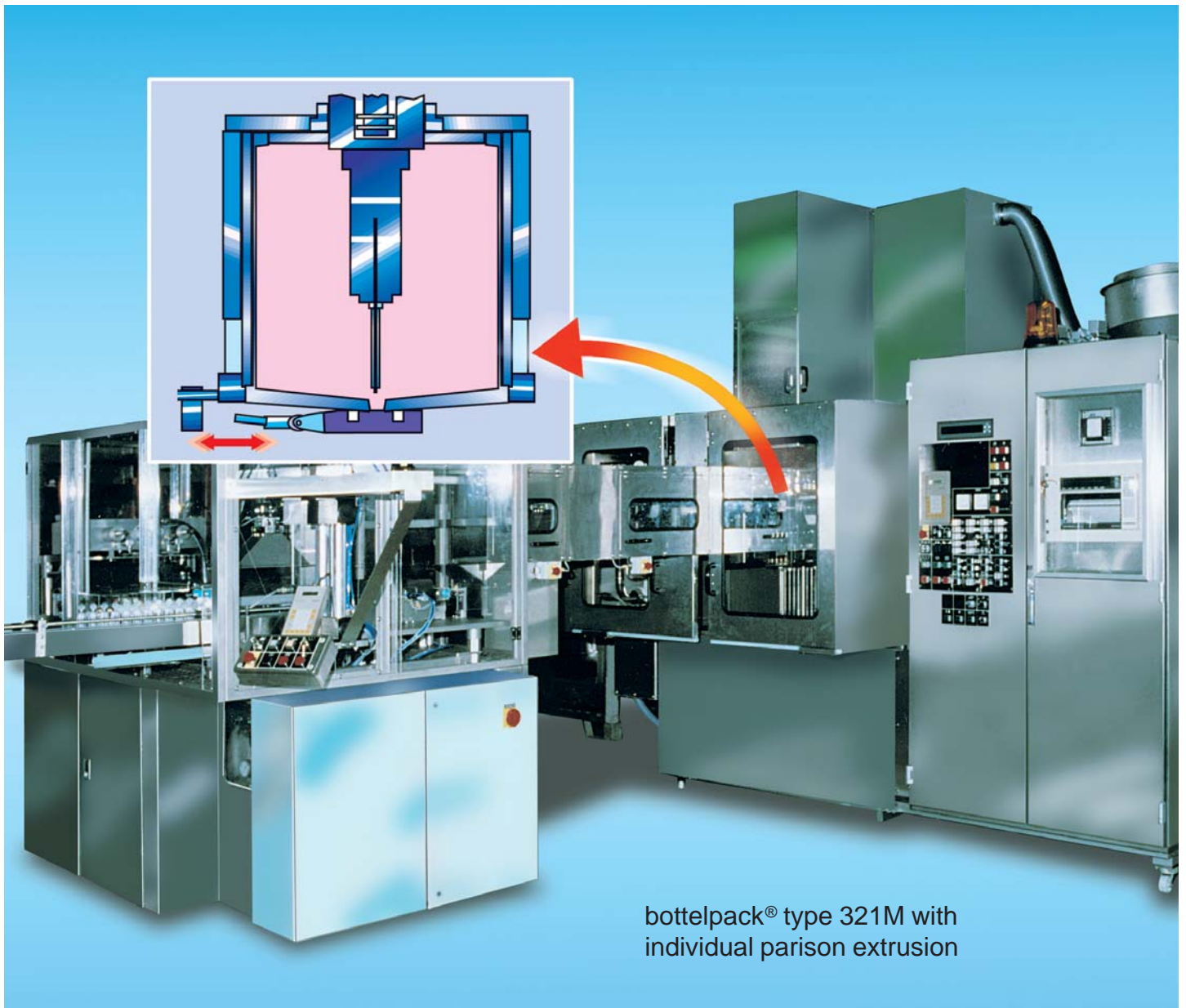
The combined Luer-ampoule for all kinds of small volume parenterals is yet another example.

Whether Luer-Fit or Luer-Lock syringes are used - the container allows for a connection and the direct withdrawal of the product. The ampoule body collapses easily and completely and leaves no rest-volume in the pack. The need for an additional needle

becomes obsolete. Besides important cost savings this innovation offers a high degree of safety. The ampoule may remain attached to the syringe until application, thus allowing easy identification of the product to be administered.

This innovation is already successfully introduced in a number of markets.

rommelag[®] now presents the latest state of the art equipment for its production, offering a number of features which make this system attractive for all the potential users in the industry.



bottelpack® type 321M with individual parison extrusion

The integrated blow-fill-seal technology has guaranteed an outstanding sterility confidence level in aseptic filling for almost 30 years.

Recently rommelag® launched its latest development in machine designs, now known as «black/white side philosophy».

This equipment attracted considerable interest from the moment it first appeared. The split between filling and operating room offers many obvious advantages.

A number of machines are already in production and they have now been improved further.

The latest version allows automatic start-up from outside the filling room; the operator as a potential source of particles does not need to enter for this procedure.

As a major breakthrough rommelag® has also been successful in integrating a sterile air chamber which includes the mandrel hood, required for cleaning and sterilization. This installa-

tion protects the point of fill in all bottelpack® machines and is now in-line cleaned and sterilized.

These procedures as well as machine start-up are now fully automatic and relevant operator interventions are completely eliminated.

With this truly unique invention the bottelpack® machines are once again a further step ahead in aseptic filling with blow-fill-seal technology.

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