

Packaging

Applications

maropack can process the following pharmaceutical products:

- Eye drops
- Ear drops
- Nose drops
- Eye rinses
- Solutions for inhalation
- Saline solutions
- Contact lens solutions
- Standard injections
- Sterile water
- Disinfecting solutions
- Gels
- Creams
- Ointments
- etc.

manufacturing

filling

packaging

with the bottelpack[®] aseptic system

for the pharmaceutical industry



Future innovations
Squeezeable one-way syringes with various inserts, e.g. needles



From our production
Filled receptacles in various packaging forms



Applicators with ball mechanism
Optimal delivery of semi-liquid products



Function of applicators
Simple application for different uses



How to find us



Top products
Various shapes: conical, cylindrical, with ball mechanism

maropack

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maropack

efficient solutions – proven techniques – highest quality

optimal cost effectiveness with maropack

maropack offers secure, economical and individualised solutions for the manufacture of sterile solutions, aseptic filling and packaging of pharmaceutical products. maropack has highly qualified professionals and well trained personnel as well as facilities, and state-of-the-art equipment in compliance with GMP.

For the manufacture of sterile solutions and for the weighing of starting materials, separate facilities are available. These facilities are designed according to the respective clean classes and incorporate the latest technological advances.

For fully automated and aseptic filling, the bottelpack® system is utilised. With this system, bottles,

ampoules and applicators are moulded, filled with liquid or semiliquid products and sealed under aseptic conditions – all in one single production cycle. The blow-fill-seal-technology offers tremendous advantages: highest product hygiene, unsurpassed product quality and competitive production of ergonomic receptacles on site.

For the packaging of intermediate products, fully automatic and semi-automatic packaging machines are utilised.

maropack operates exclusively with the bottelpack® system and has an excellent reputation in the pharmaceutical industry as a partner for man-

ufacturing, filling and packaging of sterile and non-sterile liquids and ointments.

maropack offers its customers an «all inclusive» service, i.e. the product is not only manufactured, filled and packed on schedule and according to the customer's requirements, maropack also purchases the raw materials and packaging components. Furthermore, maropack offers customer specific trial manufacturing and trial fillings which can be used for stability investigations or clinical studies.

maropack was audited by the FDA, is EN ISO 9001 certified and audited regularly by the local authorities.



Water preparation
For specified water according to international pharmacopeias



bottelpack®
With automatic blow-fill-seal-technology



Packaging
According to special customer requirements



Warehouse
For a temperature controlled storage of incoming and outgoing products



maropack

Filling
Sterile filling of receptacles with blow-fill-seal-technology and subsequent 100 % visual inspection

Dispensing room
Mixing of a product according to customer requirements with computer controlled monitoring

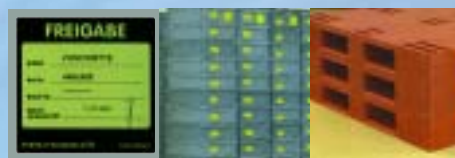
Room for holding tanks
Holding tanks ready for production

Connection of containers and sterilisation
Coupling of product container to bottelpack® machine

From the pelletised material to the hygienic and ergonomic receptacle
all in one production cycle with the blow-fill-seal-technology



In-process controls
Performance of extensive in-process-controls during production



Labelling
Of containers and pallets in accordance with pharmaceutical requirements



1st step
The pelletised material is fed into the bottelpack® machine



2nd step
The pelletised material is extruded and blow-moulded into a tube



3rd step
The lower part of the tube is moulded into a receptacle by the moulding tool



4th step
The pre-moulded receptacle is filled, then the upper part is moulded and sealed



5th step
The unnecessary plastic parts are removed



6th step
The finished product is ready for further treatment