

VISOMAT IV



Inspection machine for visual inspection of ampoules, carpoules, vials, infusion bottles and syringes.

Inspection is performed concerning particulate impurities of the content and defects of the container and the closure.



Ergonomic working place in the inspection cabinet. The inspection zone is shut off from stray light.



Magnification lens plus mirrors from above and below support easy fault detection through the operator.

VISOMAT IV

The visual inspection unit permits safe fault detection and simple product handling. Special illumination arrangements, various infeed and outfeed systems and excellent working place ergonomics are the basis for high machine capacity even when the most different inspection criteria have to be met.



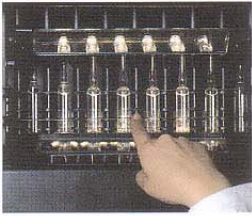
Versatile Application

The VISOMAT IV is used for visual inspection of ampoules, carpoules, vials, infusion bottles and syringes according to foreign particles in the content as well as defects of the container and the closure. The machine can be operated as stand-alone unit or alternatively be integrated between a filling machine and a labeller. The VISOMAT IV can be universally used for a format range from 1 ml to 1.000 ml.

Efficient Operation

The products to be inspected are placed between the inspection rollers under an inspection angle of 60° with the aid of a suitable product-dependent infeed system.

In combination with the individually adjustable pre- and control rotation and a special arrangement of the illumination an allround inspection with accurate particle inspection is granted. Defective products are marked by the operator and automatically rejected. Depending on the application various outfeed systems for the inspected good products are available.



Faulty products are marked by finger-pointing and rejected automatically.



Reject station to eject faulty products. Execution of the reject station varies with the product to be inspected.



Automation

The machine operation is menu-guided and can be performed easily through a PLC with clear text display. In case of product change-over the corresponding product parameters are called from the product memory and automatically set. Machine and product related data can be protocolled and printed.

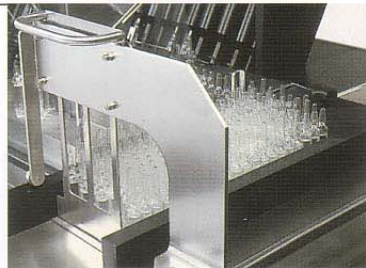
All-round Inspection

Various illumination options are available to allow for best possible product-specific inspection. Tyndall lights as well as polarised light in combination with lens and mirrors from above and below ensure safe fault detection through the operator.

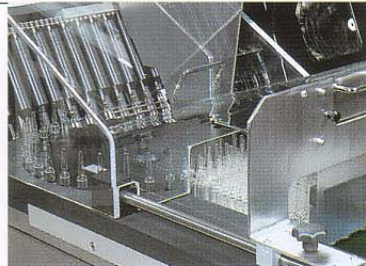
Automatic Reject System

Faulty products are marked by way of finger pointing, thereby breaking a sensor curtain. The system works without touching the defective products. Depending on the product various executions of the reject station are available.

Tray loading of inspected good products after having passed the inspection stage.



Tray unloading of in-stable products such as ampoules and carpoules through wide infeed belt and infeed star wheel.



Major Advantages

- Considerably increased *output and accuracy* compared to completely manual inspection.
- *Improved working place ergonomics* with specially formed arm rests, sufficient knee space and control elements in the reach of the operator.
- *Tyndall-illumination* refracting concentrated light at foreign particles enormously supports fault detection.
- *Menu-guided* machine operation with *clear text alarm messages*.
- Infinitely adjustable *fast pre-rotation* to whirl up particles and *slow control rotation* for all-round product inspection.
- *Automatic reject system* ensures convenient ejection of faulty products without output reduction.
- *Tool-less product changeover* within a few minutes.
- Simple synchronisation with upstream MASCHINPEX outer washing and decontamination machine LAVIAL.

Wide Range of Accessoires

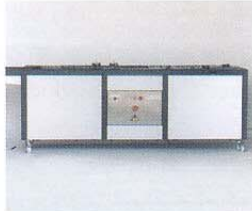
For integration in a complete production line various accessories are available. Smaller output fluctuations can be compensated with a turntable, for larger variations a buffer table can be used.



MASCHINPEX
Maschinenbau GmbH

A Company in the
DRIAM-Group

Buffer table to accumulate larger quantities of stable products.



Turntable for manual loading and line synchronisation.



VISOMAT IV with upstream MASCHINPEX outer washing and decontamination machine LAVIAL.



Transport belt with simple inspection of bottles using transillumination.



VISOMAT IV-2 with upstream turntable DT 1200 for inspection of lyophilised vials.

Technical Data VISOMAT IV

Design

Welded stainless steel frame.
Product contact parts in stainless steel or FDA-approved synthetic materials.

Modular design

1-lane model VISOMAT IV
2-lane model VISOMAT IV-2
4-lane model VISOMAT IV-4

Products

Ampoules, carpoules, vials, infusion bottles and syringes in a range of 1 ml to 1000 ml.

Output

Up to 10.000 products per lane and hour.

Inspection criteria

Foreign particles, container defects such as glass breakage or cracks, incorrect closures.

Inspection angle

Inspection takes place under an angle of 60°.

Operation modes

- Continuous operation
 - Intermittent operation with adjustable cycle time and quantity.
- The operation mode can be changed as required.

Working height

approx. 900 mm, adjustable

Format changeover

Tool-less format changeover within a few minutes.

Electricity

400 V, 3 Ph + N + PE, 50 Hz, approx. 1,4 kW

The MASCHINPEX product range includes:

- Inspection Machines
- Sorting Machines
- Outside Washing and Decontamination Machines
- Capsule Polishers
- Feed Systems
- Containers