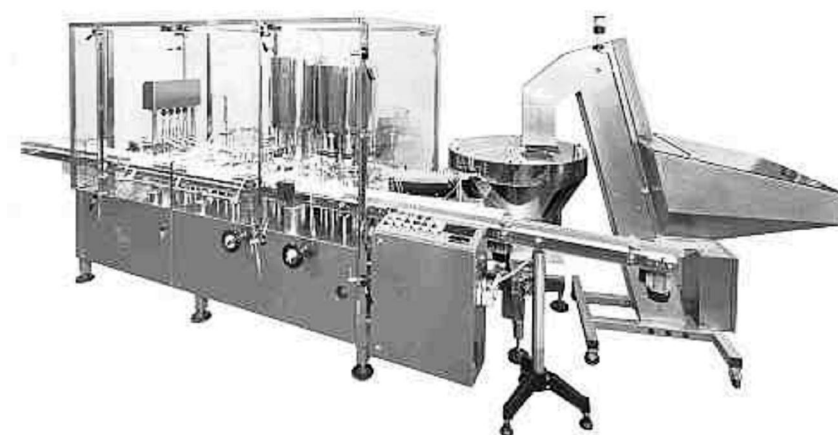


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## M 50



### DESCRIPTION



In the second half of 80's M.A.R. **M50** monobloc was born to fill injectable solutions at high speed.

Its success at user's sites was great.

In the early 90's a new machine was created. This new machine would use the same working methodology of the M50 for injectables in order to satisfy the need of the pharmaceutical market in the field of ophthalmics and generics at high speed (over 300 pieces/minute).

The M50 for generics can be equipped with 8/6/4 or 3 AISI 316LSS uni-directional rotary piston seal-less and valve-less syringes or time/pressure fill system.

The pitch of vials, which are very close one to another, allows filling performances up to 300 pieces/minute under 100 class conditions.

The different cap styles are inserted by means of a specific number of pick and place heads, normally working by vacuum.

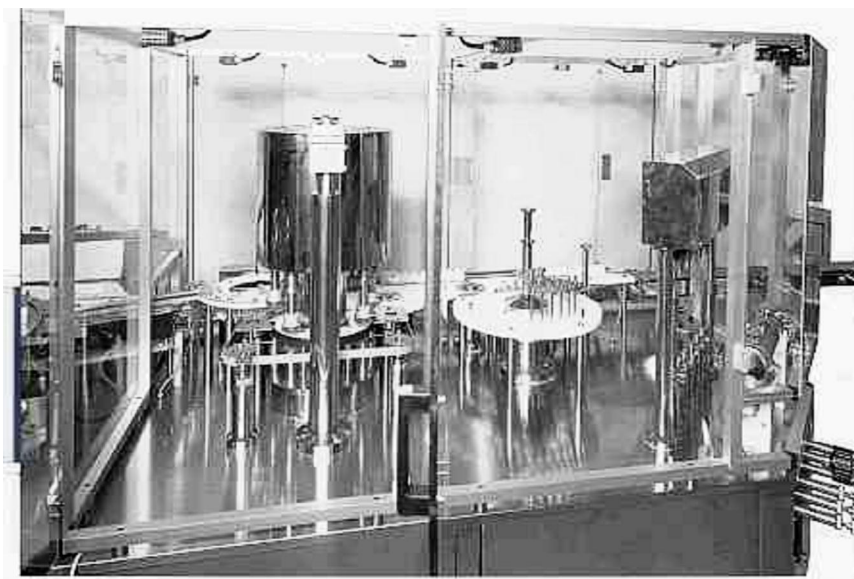
Quick change-overs with no tools.

Product and bottle contact materials are all autoclavable, as well as transfer alveolate star-wheels.

The machine can also be installed under isolator, as well as include a bottle unscrambler.

Model equipped with 3 filling needles – speed up to 150 pieces/minute.

Model equipped with 8 filling needles – speed up to 350 pieces/minute, based on dimensions of caps and bottles to be handled.



The machine can be equipped with the screw-cap application unit only or combination of different closing elements as press-on cap, etc.

Moreover, the machine can also be manufactured in the version suitable for spray-pumps insertion (nasal spray-pump type) as well as for aluminium pumps insertion.

In this case, it comes with the crimping station with mechanical system.

These versions can be manufactured with the same basic logics of the machine **M50**.

As a result, the performance of the machine satisfies the typologies required.

As far as high speed is concerned, it is provided by extremely smooth movements without any discontinuous acceleration.

MAR provides much of the ancillary equipment required both upstream and downstream for the M50 machine, such as unscramblers, check-weighing systems, labellers, etc.

M.A.R. S.p.A. Macchine Automatiche Riempitrici - viale Italia, 50 - 20000 Lainate (MI) Italy

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