

# Ampoule Filling & Sealing Machines R911/MA & R921/MA



FOCUS ON DETAILS

# Ampoule Filling & Sealing Machines

## R911/MA & R921/MA

The ampoule filling and sealing machine type R911/MA and R921/MA are suitable for filling any liquid, either under sterile conditions or not and are ideal for small scale production. Thanks to their compact design, the machines fit to small rooms and are very easy to operate and clean.

A comprehensive list of optional features and accessories allows these machines to be provided to meet the individual requirements of each customer and application.



### Standard equipment

- Product range: Ampoules 1 – 30 ml
- Output up to: 6.000/h
- Adjustable infeed magazine with min. load cell
- One or two filling stations.  
Dosing by means of seal-less rotary piston pumps made of stainless steel 1.4404 (316L) or ceramic.
- Change parts set for one ampoule size
- PLC control
- Human/Machine interface colour touch screen
- Feature „No ampoule – no filling“
- Interlocking safety cabinet with stainless steel frame
- Warning beacon
- Heat exhaust device including exhausting fan
- Mechanical draw-off
- Outfeed magazine with max. load cell
- Filling ranges: 0,2-2 ml  
1-5 ml  
2-10 ml  
6 - 30 ml

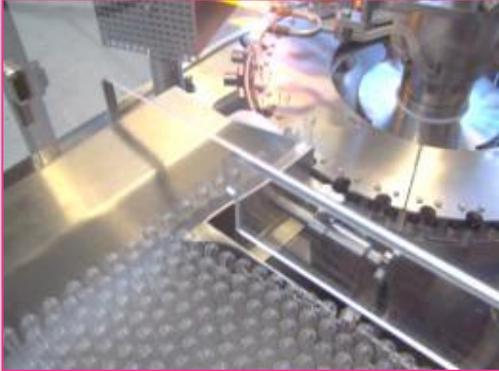
### Typical Options

- Special dimensions for infeed and outfeed magazine
- Opening station for closed empty ampoules according to DIN/ISO 9187 (Form D)
- Inert gas supply before, during and after filling as well as during sealing
- Inert gas supply deficiency control
- Interlocked laminar flow hood
- Gas compressor
- Pump moistening device
- Diverse filters for gasses and medium
- Processing counters
- Batch protocol printer
- Filling and stoppering of vials
- Further options on request



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The inclined metal belt gently pushes the bunch of ampoules towards the infeed screw, which separates and transports them to the main star wheel. The transport star wheel hands gradually the ampoules over the machine through the opening station (option), filling station (pre-gassing, gassing during filling and post-gassing are optionally available) and sealing station. Thus a careful object transport is ensured.



Ampoules are filled by mean of rotary piston pumps (accuracy better than  $\pm 0.5\%$ ). The ampoules are centered in order to allow the gassing and filling needles to move into the ampoules without touching their neck, so that wetted neck and black spots resulting from carbonisation are avoided. In order to increase the production flexibility, peristaltic pumps can optionnally be fitted to the machine.



After the flame sealing station, the filled and sealed ampoules are gently pushed out of the transport star wheel by an exiting finger into the outfeed magazine.

The ampoules can then be discharged from the outfeed magazine by means of suitable trays.

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### Technical data

	R911/MA	R921/MA
Max. output (ampoule/h)	3.000	6.000
Number of filling station	1	2
Machine dimensions (mm)	1210L x 1220W x 1900H	1560L x 1210W x 1900H
Power consumption	550 W	650 W
Power supply	230V , 50 Hz (Alternates available on request)	

### Other machines available from ROTA

- Washing machines for ampoules and vials
- Hot Air Sterilisation Tunnels.
- Combination filling and sealing machines for ampoules and vials
- Vial filling and sealing machines.
- Inspection machines for ampoules and vials
- Labelling machines for ampoules and vials
- Nested syringes filling and plungering machines
- Labelling and assembling machines for syringes

What started with a simple machine for filling and closing ampoules has developed into a comprehensive range of equipment for the pharmaceutical industry

Send us your request or specifications.  
We will be pleased to meet your requirements.

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