

Linear Ampoule & Vial Filling & Sealing Machines

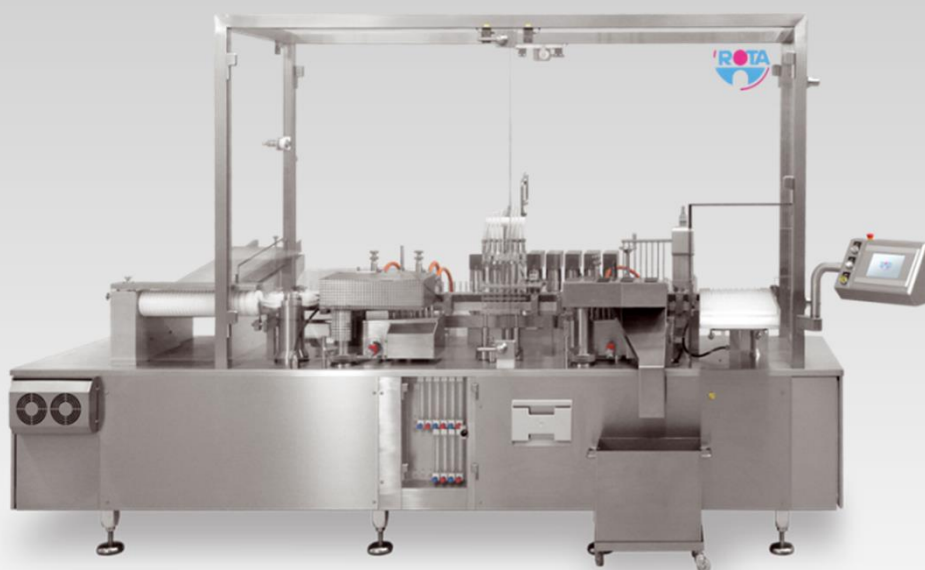


FOCUS ON DETAILS

Linear Ampoule & Vial Filling & Sealing Machine R941/MA-G, R960/MA-G, R980/MA-G

The combination ROTA linear machines for filling and sealing of ampoules respectively filling and stoppering of vials are suitable for filling any liquid, either under sterile conditions or not. The integration of state of the art technologies as well as servo-drives when needed assures a gentle movement and breakage free transport of the objects.

These machines are designed to be integrated in complete processing lines for mass production, but can also be supplied as stand-alone machines. 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
Vials up to Ø 32 mm
- ~ Output up to: 24.000/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 object – 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

- ~ Direct infeed from sterilisation tunnel
- ~ 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
- ~ CIP/SIP capable pumps
- ~ oRABS, cRABS, Isolator containment
- ~ Further options on request



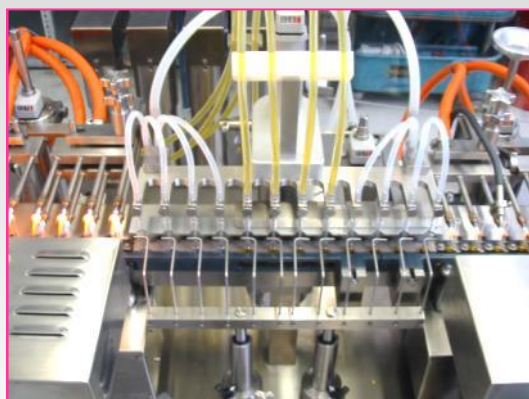
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The infeed metal belt gently pushes the bunch of ampoules towards the infeed screw, which separates and transports them to the intermediary wheel to be handed over to the transport rake.

The transport rake hands gradually the ampoules over the machine through the opening station for ampoules (option), filling station (pre-gassing, gassing during filling and post-gassing are optionally available) and sealing station. Thus a careful object transport is ensured.



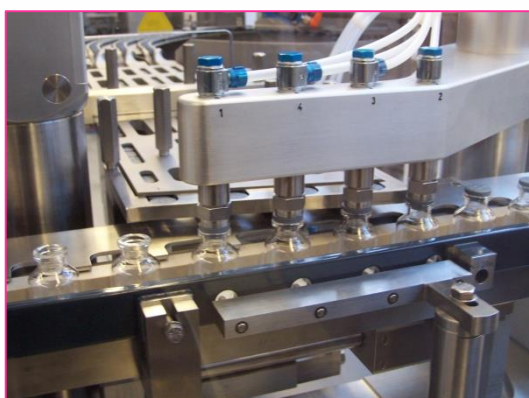
Filling through seal-less rotary piston pumps from ROTA: the volume to be filled is set through the colour touch-screen operator interface and can be stored in dedicated recipes.

The ampoules are centered below the needles 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 optionally 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.



In addition to ampoule filling and sealing, the machine is equipped with a rubber stopper sorting and feeding station for vials. Stoppers are inserted (full or half-insertion) using a pick & place arm.

Outfeed of vials is either in magazine or on a conveyor belt to transfer the filled and stoppered vials to the next processing machine (e.g. capping & crimping machine).



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Technical data

	R941/MA-G	R960-4/MA-G	R960-6-4/MA-G	R960/MA-G	R980-4/MA-G	R980/MA-G
Max. output (amp/h)	12.000	12.000	18.000	18.000	24.000	24.000
Max. output (vials/h)	12.000	12.000	12.000	18.000	12.000	24.000
Filling stations	4	4	6 for ampoules 4 for vials	6	8 for ampoules 4 for vials	8
Max. object diameter	24 mm	32 mm	32 mm	24 mm	24 mm	18 mm
Power supply	400 V, 50 Hz, 3-Ph + N (Alternates available on request)					

Other machines available from ROTA

- “ Washing machines for ampoules and vials
- “ Hot Air Sterilisation Tunnels.
- “ Filling and sealing machines for ampoules
- “ Vial filling and sealing machines.
- “ Inspection machines for ampoules and vials
- “ Labelling machines for ampoules and vials
- “ Nested syringes filling and plunging 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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