

Semi-Automatic Machines for Ampoules & Vials



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Semi-Automatic Machines for Ampoules & Vials

ROTA develops, manufactures, and markets machines for washing, sterilizing, filling, closing, inspecting, and labelling of ampoules, vials, and other cylindrical containers, which can be delivered either as mono-block machines or integrated in a compact processing line. Nested syringes processing machines are rounding our port-folio off.

All started with semi-automatic machines, which are still part of our program nowadays, of course adapted to the current needs of the pharmaceutical industry.

These table-top machines are ideally suitable for laboratories, for R& D purposes as well as for biotech industry when small batches have to be processed, and are, depending on the model, able to

- Fill & seal ampoules
- Fill and/or close vials
- Label ampoules and vials

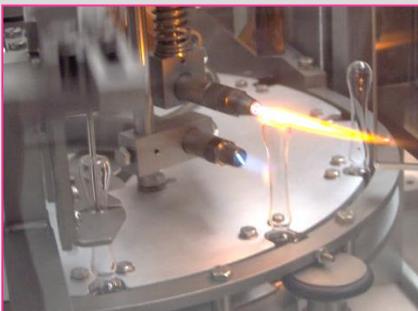
A comprehensive list of optional features and accessories allows the machines to meet the individual requirements of each customer and application.



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Table-Top Ampoules & Vials Filling & Closing Machines

R915 Series



Ampoules are manually inserted by the operator into the transport star wheel, which 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 centred 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 driven out of the transport star wheel into the outfeed magazine, where they can then be discharged by means of suitable trays.

Optionally, the R915 series can be equipped with a rubber stopper sorting and feeding system.

Vial stoppering is performed through a pick & place arm, allowing full insertion as well as half insertion for vials to be freeze dried.

Models	R915/AS	R915/AS-AV	R915/AS-G	R915/AS-AV-G
Open Ampoules (max.)	1000/h	1000/h	1000/h	1000/h
Closed Ampoules/h (max.)	-	1000/h	-	1000/h
Vials/h (max.)	-	-	1000/h	1000/h
Max. object \varnothing (mm)	24	24	52	52



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Table-Top Vial Filling & Closing Machines

FLR25 Series



Vials are manually inserted by the operator into the transport star wheel, which hands gradually the vials over the machine through, for example considering machine type FLR25/G the filling station (pre-gassing, gassing during filling and post-gassing are optionally available), and the rubber stoppering station.

When handling stable vials, the infeed can happen also through a small accumulation turntable (option).

Vials are filled by mean of a rotary piston pump (accuracy better than $\pm 0.5\%$).

The machine design allows also an easy integration of peristaltic pumps, filling system especially suitable in case one-use product contact parts is requested.

After the filling station, vial stoppering is performed through a pick & place arm, allowing full insertion as well as half insertion for vials to be freeze dried. Once stoppered, the objects are gently driven out of the transport star wheel into the outfeed magazine, where they can then be discharged by means of suitable trays.

Crimping of filled and stoppered vials takes place on a separate machine (FLR25/B). On request, both FLR25/G and FLR25/B can be connected via a conveyor belt in order to automate the vial transfer.

Models	FLR25/G	FLR25/B	FLR25/FB
Filling and stoppering of vials	1500/h	-	-
Capping and Crimping of vials	-	1500/h	-
Filling, capping and crimping of vials	-	-	1500/h
Max. object \varnothing (mm)	52		

Table-Top Ampoules & Vials Labelling Machines

RE25 Series



ROTA semi-automatic labelling machines for self-adhesive labels RE25 meet precision and reliability requirements of label positioning in an effective and economical way.

Objects are manually inserted by the operator into the transport star wheel, which hands gradually the vials over the machine to the labelling station.

When handling stable objects, the infeed can also happen through a small accumulation turntable (option) or via conveyor belt (option) from an upstream processing machine, for example capping and crimping machine.

The labelling machine RE25 is equipped with a label dispensing unit from HERMA. Prior to labelling, label printer and different control sensors can be installed. Depending on chosen printer type, batch number, expiry date, data matrix code or even full label can be printed.

Once labelled, the objects are driven out of the transport star wheel into the outfeed magazine, where they can then be discharged by means of suitable trays.

	RE25
Maximum capacity for ampoules	1500/h
Maximum capacity for vials	1500/h
Max. object Ø (mm)	52



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In addition to table-top semi-automatic machines, ROTA can supply hand fillers equipped with rotary piston pumps (large choice of filling ranges respectively volumes), as well as laboratory ampoule sealing devices.



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 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 requirement.

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