



ROTARY WASHING MACHINE DESCRIPTION – RC SERIES

The model RC series rotary washing machines are designed to process vials, ampoules or syringes with an output of up to 18,000 p/h (300p/m). The glassware is loaded into holders which rotate upside-down while the washer rotates with a continuous motion. Needles penetrate the glassware during the cycle to spray the various required fluids both on the inside and on the outside of the glassware.

Process:

Available process cycle choices include: recycled water, new water, compressed air, silicone, or other as required. Pressure of the various fluids is constantly monitored to ensure that the glassware is properly washed. Each vial, syringe, or ampoule is guided through a series of process steps which can include a combination of air, recycled water, WFI, siliconization, etc. Glassware is automatically discharged at the end of the production cycle either in trays or directly on the tunnel in-feed conveyor belt.

Process Control:

The integrated control system includes a PLC and touch screen HMI display. Individual washing cycles are programmed for various glassware types. Controlled process variables include temperature, pressure, fluid spraying time, and cycle speed. Each process parameter is defined within the software; parameters are password protected and accessible only to authorized supervisors and validation staff. Alarms are automatically displayed on the screen.

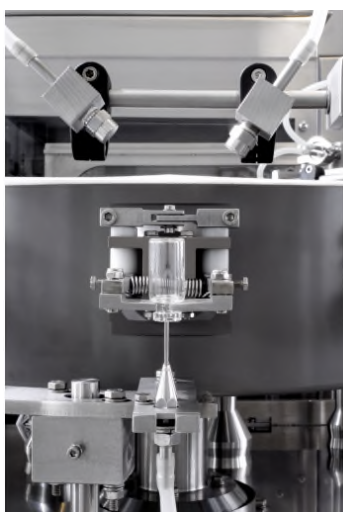
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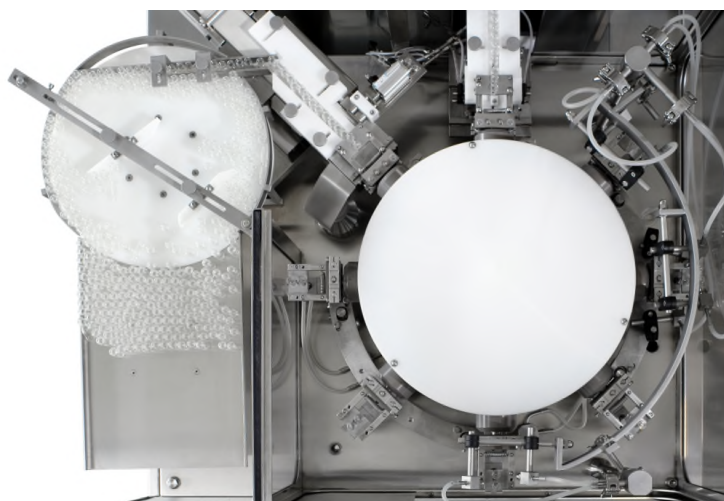
Materials:

All parts that come into contact with the interior of the glassware or process fluids are constructed of AISI 316L stainless steel. Other (non-contact) parts, such as the frame, shafts, and bearings are made of AISI 304 stainless steel. Finishes range from mill finished to mirror polished. All welded points are argon atmosphere treated and then mechanically polished and passivated. The valves are high purity diaphragm type and pneumatically actuated; the pipe fittings are tri-clamp type and all piping is fully drainable. All Steriline washing machines are built in compliance with cGMP and CFR21 Part11 requirements

Washer Model	Number of stations	holders per station	Max. Output (pieces/hour)
RC-1	10	1	3,000
RC-2		2	6,000
RC-3		3	9,000
RC-4		4	12,000
RC-5		5	15,000
RC-6		6	18,000



View of Penetrating Needles

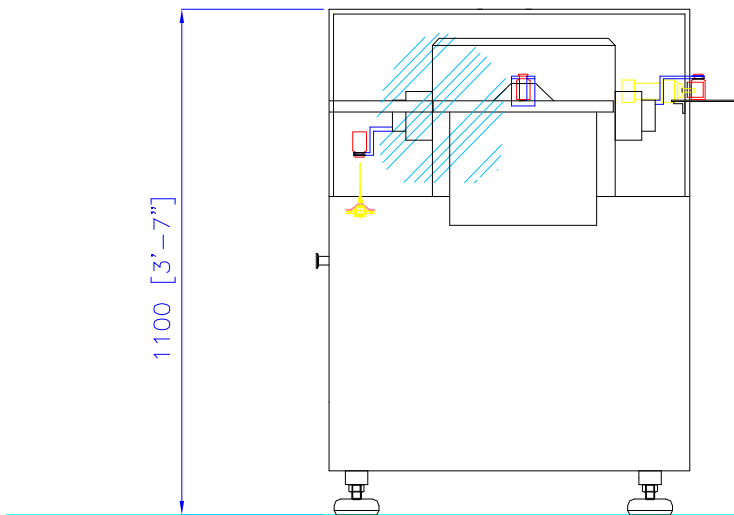
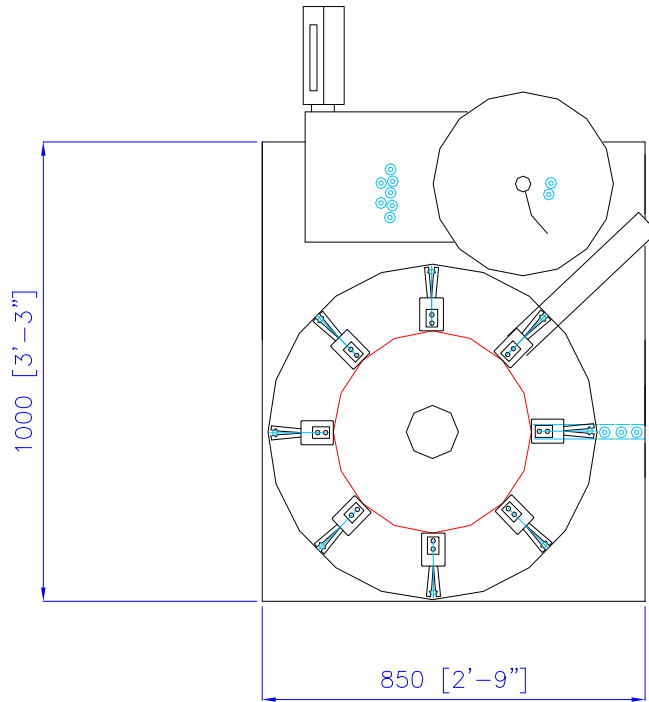


Top View of Turret Assembly

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RA-AV2 WASHER



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