



Product overview

Product portfolio

Machine type	Container	End product
STANDARD RANGE		
Rotary washing machine RA-RC	vials - ampoules - cartridges	liquid - lyo - powder
Depyrogenation tunnel ST	vials - ampoules - cartridges	liquid - lyo - powder
Filling machine VFM	vials - syringes	liquid - lyo
Capping machine VCM	vials	liquid - lyo - powder
External decontamination machine EDM	vials - ampoules - cartridges	liquid - lyo - powder

machine EDM	viais - ampoules - cartridges	ilquia - iyo - powaer
ROBOTIC RANGE		
Vial filling machine RVFM	vials	liquid - lyo
Vial capping machine RVCM	vials	liquid - lyo - powder
External decontamination machine EDM-RHP	vials	liquid - lyo - powder
Tray loader RTL	vials - cartridges	liquid - lyo - powder
Tub decontamination system RTDS2	tubs	liquid - lyo - powder
Nest filling machine RNFM	vials - cartridges - syringes	liquid - lyo
'		

Machine type	Container	End product
CONTAINMENT AND ISOLATION		
LAF and oRABS	vials - ampoules - cartridges syringes	liquid - lyo - powder
In-line cRABS and isolator	vials - ampoules - cartridges syringes	liquid - lyo - powder
Stand-alone isolator	vials - ampoules - cartridges syringes	liquid - lyo - powder

syringes - i.v. bags - bottles -

elastomeric infusors

Customer service

Include all the activities needed to fix any technical problem in the shortest time possible, from the registration of the request received by the client to the coordination of the different teams to be involved in the problem solving.

Organized training sessions held at company HQ in Como, Italy by our team of experts. Additional follow up training and information sharing can be completed on location at

3 Technical audits

Steriline Customer Service can handle requests to perform technical audits that will be Thermo-couples executed by experienced mechanical, software and electrical engineers.

Thanks to new technologies the Steriline software team can remotely access customer machines (equipped with the appropriate hardware and software) to diagnose and fix any problem in short order.

5 Spare parts

Steriline can offer:

- •The fastest components supply service
- •The highest quality material in the market

The possibility to revamp your old Steriline machine/line to the latest technology.

7 Preventive and strategic maintenance

Accurate planning of periodic visits performed by Steriline specialists.

8 Pharma services (qualification/validation assistance on-site)

IQ, QQ, PQ and other protocol preparation and execution assistance according to the GMP rules.

Steriline engineers to support customers' learning processes.

Laboratory work

In addition to our customer service activities, microbiological and analytical works can be either included in the single project or managed independently to satisfy our customers' requirements.

Machine on-board component calibration and setting

INTELLIGENT COMPOUNDING SYSTEM

Intelligent compounding

With this activity, before the machine installation, each single component is calibrated and set providing a turn-key solution including:

- Temperature probes
- Pressure transmitters
- Pressure differential indicators

Machine hardware component calibration and setting

- PLC

Machine protocol execution support at FAT and on-site:

- · Process tests (vial cleaning capacity, filling capacity, thermal cycle, air speed uniformity, vaporized H₂O₂ decontamination, particle counter integration, etc.)
- Performances tests (machine output, production speed, etc.)

liquid

Rotary washing machine RA-RC

Key features

- Capacity up to 24,000 pcs/h
- ◆ Range 2R-100H vial, 1-10 ml ampoules, 1-3 ml cartridges
- Quick changeover





Key features

- Constant performance output along product lifecycle
- Energy saving



Depyrogenation tunnel ST

- ◆ Compact design







Standard range

Filling machine VFM

Key features

- Capacity up to 24,000 pcs/h
- ◆ Range 2R-100H vial
- Quick changeover



Capping machine VCM

Key features

- Capacity up to 24,000 pcs/h
- Range 2R-100H vial
- Quick changeover





External decontamination machine EDM

Key features

- Capacity up to 48,000 pcs/h
- Range 2R-100H vial, 1-10 ml ampoules 1-3 ml cartridges
- Quick changeover



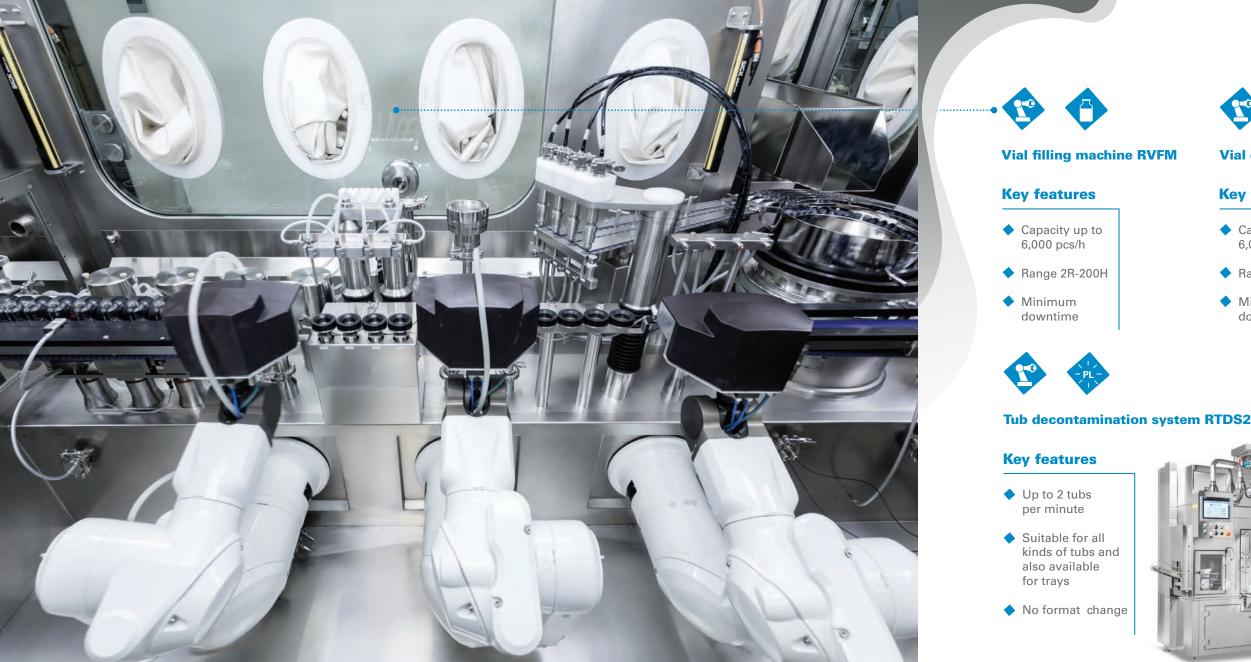




Ancillary equipment

- De-bagger
- De-lidder
- De-liner
- De-nester
- Trav loader





Robotic range





machine EDM-RHP

Key features

Capacity up to

3,000 pcs/h

Range 2R-500ml





- Capacity up to



Key features

- 36,000 pcs/h

Quick

LAF and oRABS

Standard or

- Designed to grant an ISO5 environment
- polytetrafluoroethylene (= PTFE) filter
 - 2% or less leak rate
 - Compliance with cGMP, GAMP and 21CFF
 - Automatic pressure monitoring and control

Stand-Alone Isolator

Suitable for OEB5

2% or less leak rate

LED lights

PTFE filters

Designed to grant an ISO5 environment

Integrated vaporized H₂O₂ generator

Compliance with cGMP, GAMP and 21CFR Part11 requirements





- Designed to grant an ISO5 environment
- Suitable for operator exposure band level 5 (= OEB5)
- LED lights
- PTFE filters
- Integrated vaporized H₂O₂ generator
- Part11 requirements



Containment and isolation

Intelligent compounding system

The intelligent compounding system (= ICS) is a fully automated robotic solution, controlled by software, which compounds parenteral medication doses into the appropriate final containers within a controlled environment (ISO class 4.8, grade A)

The ICS is for use within the compounding practices, both in hospitals and compounding centers, to prepare injections in accordance with appropriate regulations and to label final products in accordance with good practice requirements.

It is based on isolator technology and includes a bio-decontamination system with vaporized H₂O₂ sterilization technology; it can therefore be installed in an ISO class 8 (grade D) background environment, as per GMP Annex 1.

The ICS can handle both hazardous and non-hazardous medications and both patient specific and batch production.

The ICS includes state of the art automation and robotics to perform the following tasks without requiring human intervention:

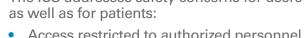
- Sterilize all items with vaporized H₂O₂ prior to starting the compounding cycle
- Calculate conversions between weight and volume on the basis of product and concentration specific gravity data
- Reconstitute powder drugs with the appropriate fluid
- Dilute liquid drugs to achieve a desired concentration
- Remove excess liquid from i.v. bags and bottles
- Compound doses into empty containers(syringes) i.v. bags, elastomeric infusors)
- Manage in-process waste

The ICS addresses safety concerns for users

- Access restricted to authorized personnel only
- No exposure by using isolator technology

- Safe identification of all items via a combination
- via RFID technology





- Automated waste management
- No cross contamination
- vision systems, barcode readers and RFID technology
- Traceability guaranteed throughout the process



- LED lights
- Range 2R-100H

changeover

Minimum downtime





Vial capping machine RVCM

Key features

Capacity up to

6,000 pcs/h

Range 2R-100H

downtime

Minimum













Leading Pharma Technology GMP Compliant Systems Experts in Aseptic Processing

Equipment Synergy

Your Number One Equipment Partner for Sterile Manufacturers in the UK & Ireland

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