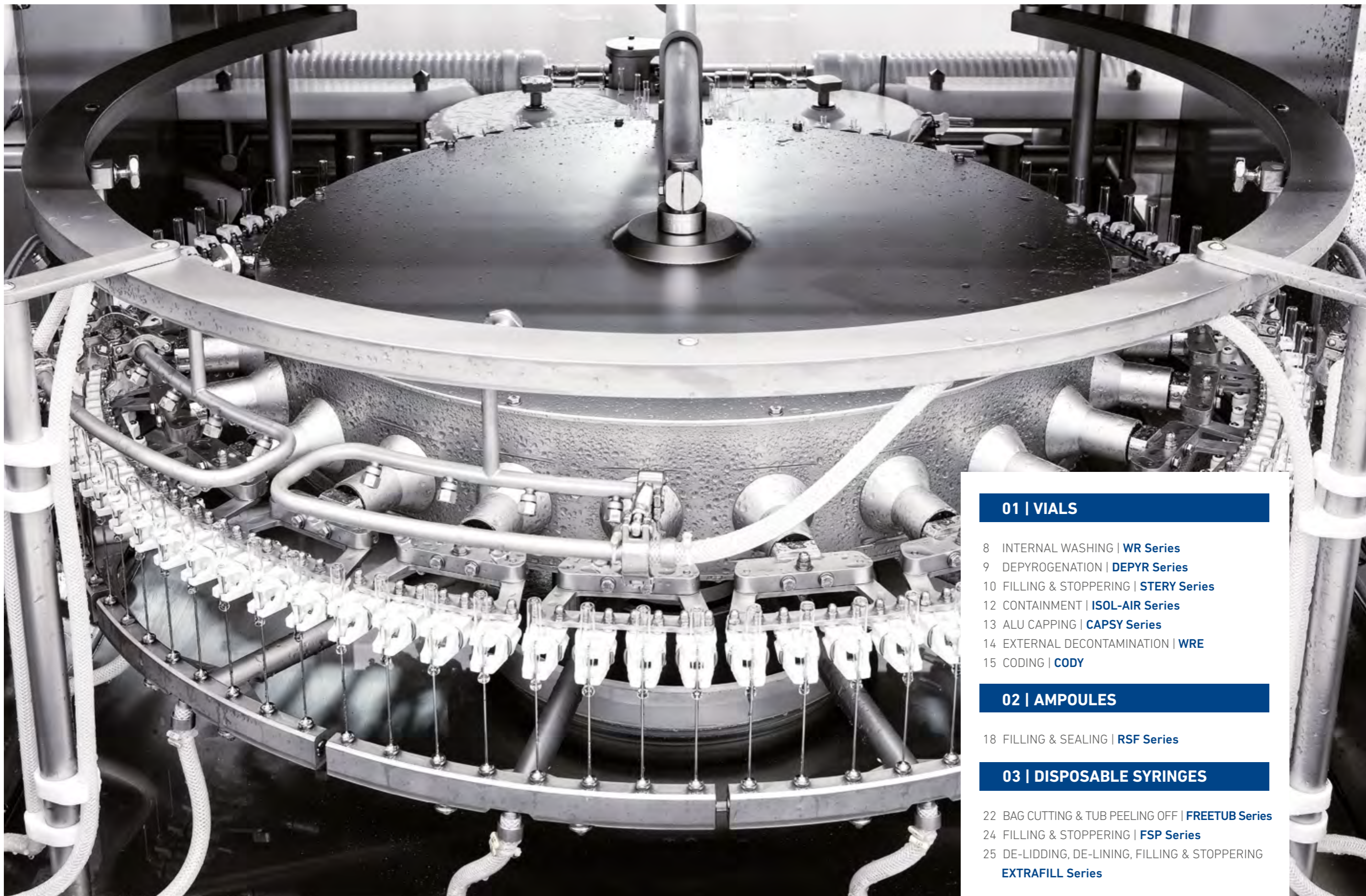




SMALL VOLUME PARENTERAL CONTAINERS **ASEPTIC PROCESSING**





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EXTRAFILL Series

WE AT MARCHESINI ARE PROUD LEADERS IN MANUFACTURING AND INTEGRATING COMPLETE LINES SINCE 1974. WE PRODUCE STAND-ALONE MACHINES AND COMPLETE LINES TO HANDLE THE ENTIRE PACKAGING PROCESS FOR THE PHARMACEUTICAL AND COSMETIC INDUSTRIES.

Following the acquisition of CO.RI.MA. in 2003, we became a leading company offering complete lines for injectable products in pre-filled syringes, vials and ampoules, from the washing process of the primary container to resting the final packed product on the pallet.

The Marchesini Group combines CO.RI.MA's proven experience in machine production for sterile injectable products with the Group's advanced technological robotic solutions, already firmly established in our packaging machines. This winning combination results in the development of new solutions aimed at improving Laminar Air Flow uniformity and the cleanability of the most critical areas of machinery in the aseptic process.



KEY POINTS

Balcony-style

facilitates innovative line installation, containers can be transported without friction, and cleaning surfaces is simple and easy.

All machines comply with **GMP** and **FDA** guidelines.

Wall installation

enables maintenance to be carried out from the back-side of the machines in a non-classified technical environment.

New models are constantly being developed in our **in-house R&D** department.

High-speed machines

provide solutions aimed at **reducing total changeover time** and maximising the pharmaceutical process performance.

Fully automated In Process Controls

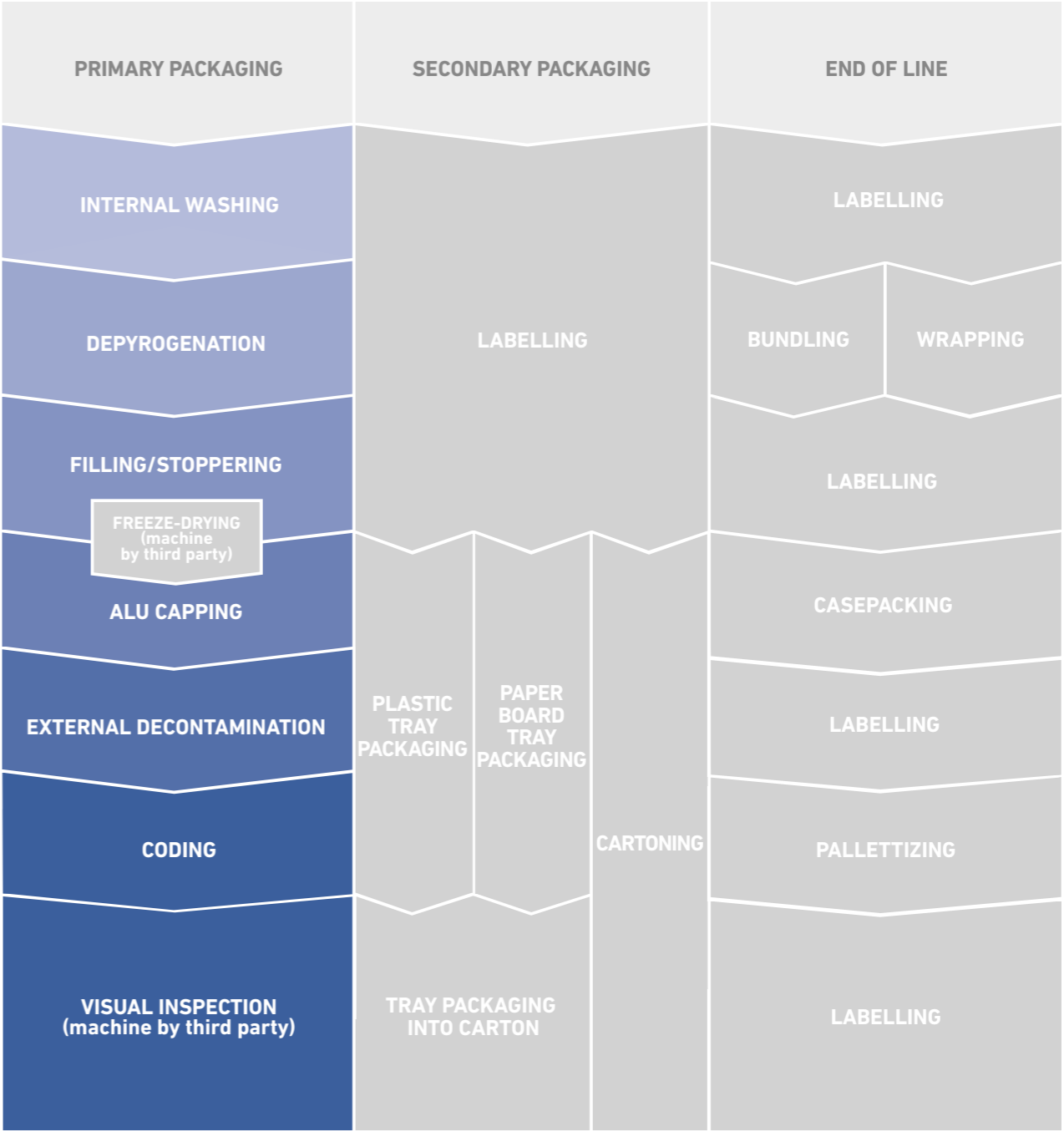
and containment cabinets in **Isolation Technology** have been implemented, to reduce the risk of microbial contamination and minimize operator interference during the **aseptic process**.





01 | SMALL VOLUME PARENTERAL CONTAINERS
VIALS

PACKAGING PROCESS



LIQUID



WASHING

The above chart illustrates the complete Marchesini line, whereas the contents of this catalogue detail the primary packaging machines. For information on secondary packaging and end of line machines, visit our website www.marchesini.com

INTERNAL WASHING WR SERIES

Rotary continuous motion machines for internal washing and drying of ampoules and vials for Small Volume Parenteral (SVP).

- 8 internal and 3 external washing/blowing stations
 - Pre-washing in Ultrasonic Bath
 - Water Recycling
- Automatic drainage and drying
 - Container siliconizing



Featured Model: WR24

OUTPUT

3.000 / 24.000 pcs / h

PRODUCT RANGE

Ampoules 1 ml / 25 ml

Vials 2R / 500 ml

MADE BY CORIMA

DEPYROGENATION DEPYR SERIES

Depyrogenation Tunnels for ampoules and vials for Small Volume Parenteral (SVP).

- Hot chamber with dedicated make-up unit and air-flow control
 - Automatic balancing and air flow adjustment
 - Pressure cascade according to process requirements
- Outfeed chamber with dedicated cooling coil and 100% air recycling
 - Dry-Heat sterilization of outfeed chamber



Featured Model: DEPYR601

MADE BY NERI



FILLING & STOPPERING STERY SERIES

Filling and stoppering machines for liquid or lyo products, suitable for filling vials for Small Volume Parenteral (SVP) in an aseptic process with complete or partial closure using rubber stoppers.

- Intermittent or continuous motion
 - Balcony or traditional table-top arrangement
 - Statistical or 100% weight check In Process Control (IPC)
 - Dosing system: rotary piston and/or peristaltic pumps
- Inert gas flushing
 - Easy integration with RABS or Isolator
 - Cleaning and Sterilization in Place (CIP/SIP)



Featured Model: STERY-LC



OUTPUT

3.000 / 24.000 pcs / h

PRODUCT RANGE

2R / 500 ml

MADE BY CORIMA



Featured Model: STERY-LA



Featured Model: STERY-SA

CONTAINMENT ISOL-AIR SERIES

Containment cabinets suitable for product and/or operator protection within aseptic processes.

- Closed RABS or Isolation technology
 - Bio-decontamination with Vaporized Hydrogen Peroxide (VHP)
 - All types of aseptic transfer connections available
 - Environmental Monitoring (EM) devices
- Bag-IN / Bag-OUT filters
 - Washing in Place (WIP)
 - HVAC Air Handling Units (AHU)



Featured containment type: Closed RABS

MADE BY CORIMA

ALU CAPPING CAPSY SERIES

Alu Cap sealing machines for liquid or lyo products, suitable for closing vials for Small Volume Parenteral (SVP) in an aseptic process.

- Intermittent or continuous motion
 - Balcony or traditional table-top arrangement
 - Automatic Sealing Pressure Regulation
- Low particle generation
 - Easy integration with RABS or Isolator



Featured Model: CAPSY-LC

OUTPUT
3.000 / 24.000 pcs / h

PRODUCT RANGE
Vials 2R / 500 ml

MADE BY CORIMA

EXTERNAL DECONTAMINATION WRE

Rotary continuous motion machines for external washing and drying of ampoules and vials for Small Volume Parenteral (SVP).

- Cabinet and duct washing with spray-balls and manual spray-guns
- Automatic drainage and drying
- Dedicated detergent circuit
- Bag-In / Bag-Out filters



OUTPUT

up to 24.000 pcs / h

PRODUCT RANGE

Ampoules 1 ml / 25 ml
Vials 2R / 125 ml

MADE BY CORIMA

CODING CODY

Continuous motion machines for printing codes on vials or caps/seals with camera verification.

- Different code printing positions possible - shoulder, body or bottom of vials; lateral or top side of caps/seals
- Vials transferred by a screw to main starwheel for coding and checking operations
- Vials are held by vacuum systems in the main starwheel to ensure uniform printing and maximum control precision
- Printing head and camera height automatically adjusted from the HMI
- Vial collection in trays



OUTPUT

up to 24.000 pcs / h

PRODUCT RANGE

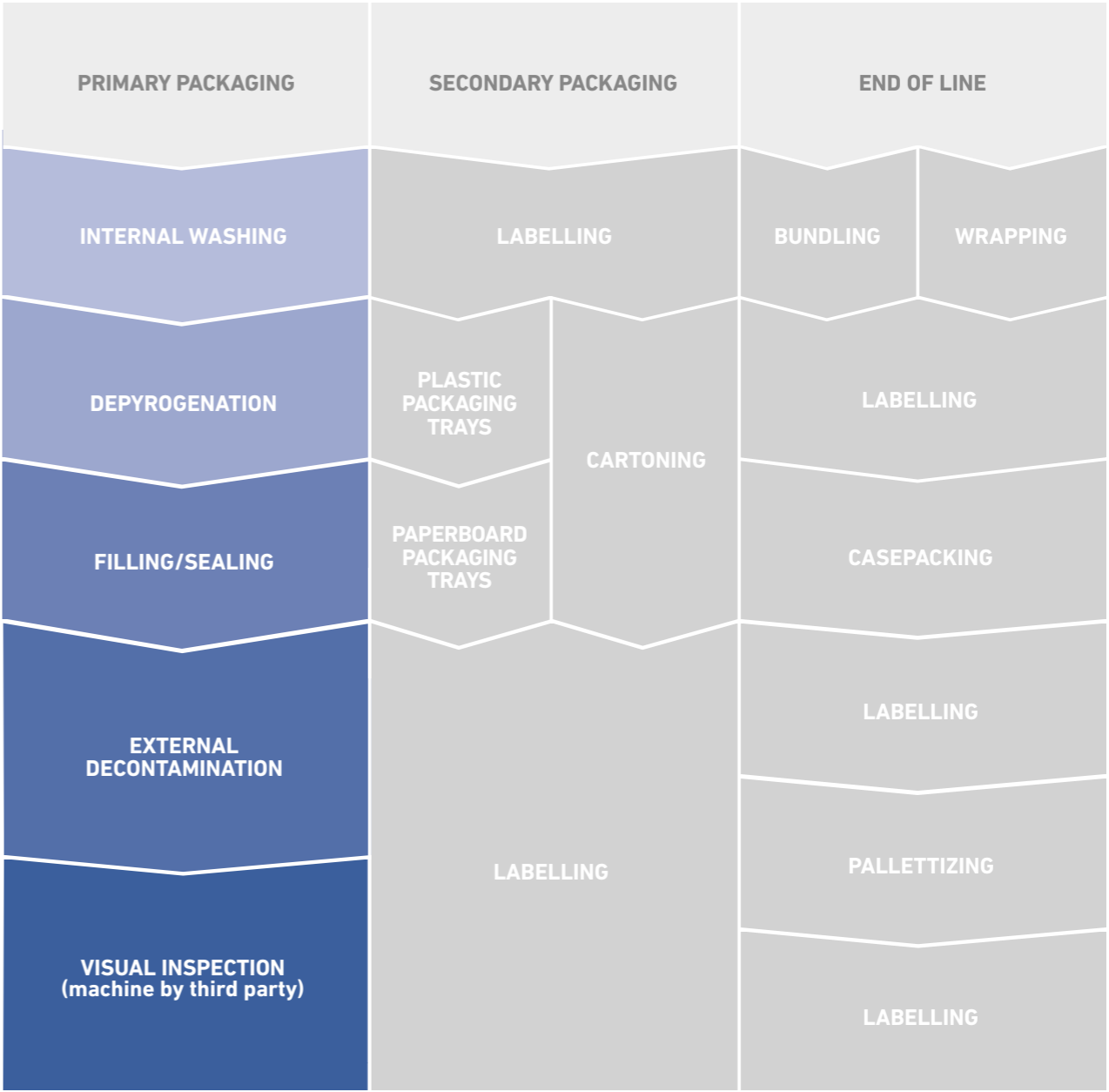
Cartridges 1ml / 3 ml
Vials 2R / 500 ml

MADE BY NERI

02

SMALL VOLUME PARENTERAL CONTAINERS
AMPOULES

PACKAGING PROCESS



LIQUID



FILLING

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FILLING & SEALING



RSF SERIES

Filling and sealing machines for liquid products, suitable for filling open or closed ampoules in an aseptic process.

- Intermittent motion
 - Dosing system: rotary piston and/or peristaltic pumps
 - Easy integration with RABS
 - In Process Control (IPC)
- Inert gas flushing
 - Sealing gas flow controlled by mass flow-meters
 - Vials processing capability
 - Cleaning and Sterilization in Place (CIP/SIP)



Featured Model: RSF 24



OUTPUT

6.000 / 24.000 pcs / h

PRODUCT RANGE

Ampoules 1 ml / 25 ml

Vials 2R / 30R

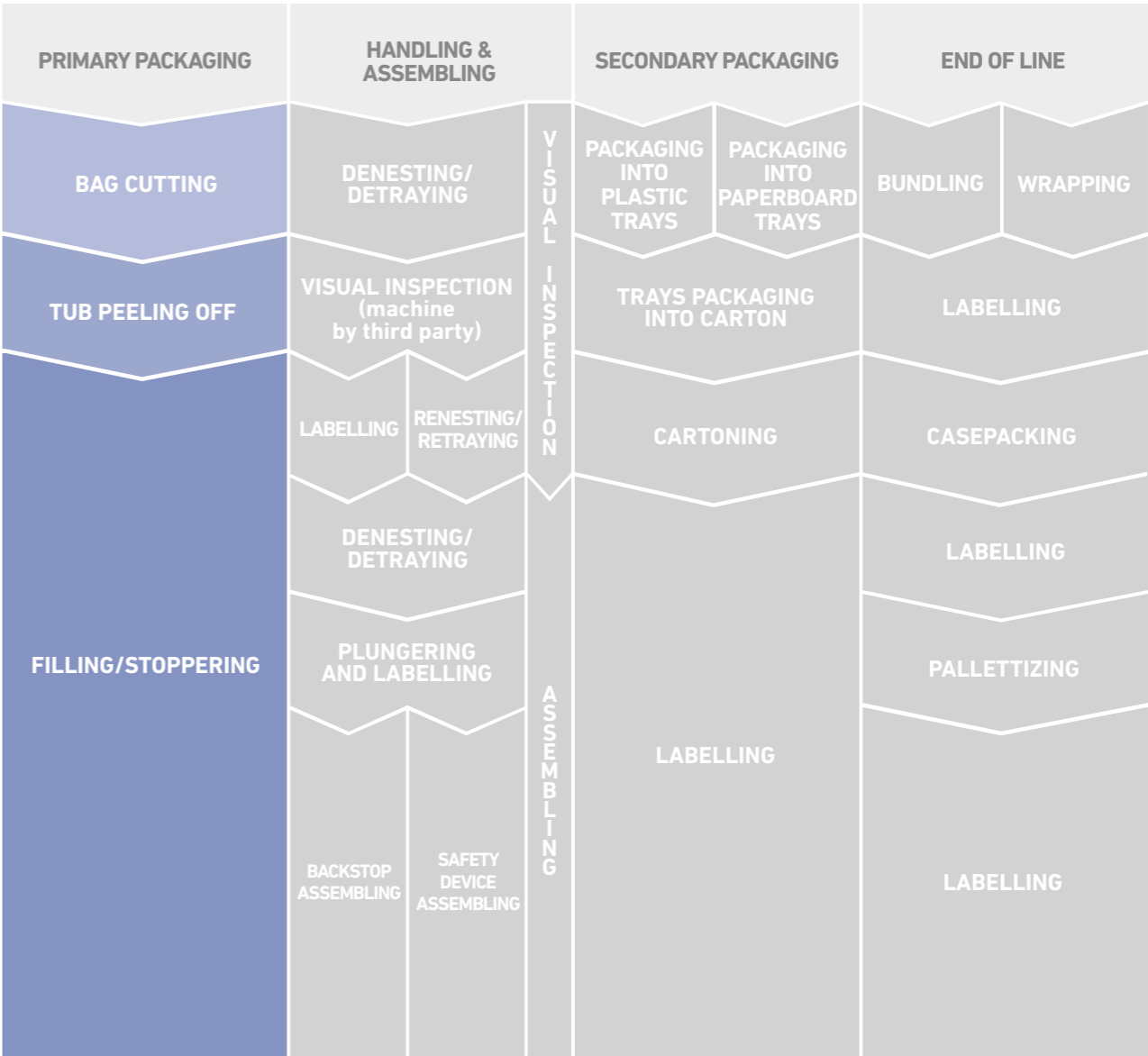
MADE BY CORIMA



03 | SMALL VOLUME PARENTERAL CONTAINERS
DISPOSABLE SYRINGES



PACKAGING PROCESS



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BAG CUTTING & TUB PEELING OFF FREETUB SERIES

Manual or Automatic machines for removal of the tub's external bag, lid and liner.



Featured Model: Freetub 10-A

MADE BY CORIMA

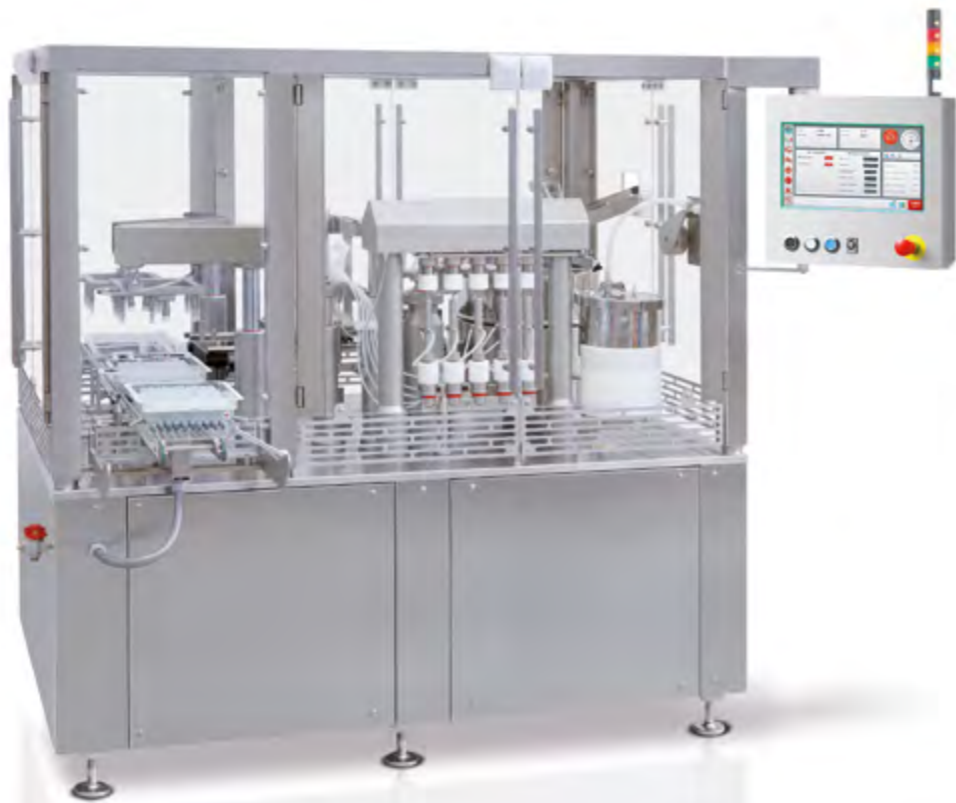


Detail of Freetub 20-A



FILLING & STOPPERING FSP SERIES

Automatic machines for filling and stoppering of RTU Syringes (glass/plastic), Cartridges and Vials in nest.

- Vacuum filling and stoppering suitable for high viscosity products
 - Statistical weight check In Process Control (IPC)
 - Dosing system: rotary piston and/or peristaltic pumps
- Inert gas flushing during filling and/or stoppering
 - Easy integration with RABS or Isolator
 - Cleaning and Sterilization in Place (CIP/SIP)



Featured Model: FSP05



OUTPUT

5.000 / 12.000 syringes / h

PRODUCT RANGE

Syringes 0,5 ml / 20 ml

Vials 2R / 30R

Cartridges 1 ml / 3 ml

MADE BY CORIMA



DE-LIDDING, DE-LINING, FILLING & STOPPERING EXTRAFILL SERIES

Automatic machines for tub lid and liner removal, filling and stoppering of RTU Syringes (glass/plastic), Cartridges and Vials in nest and tray.

- Vacuum filling and stoppering suitable for high viscosity products
 - Statistical or 100% weight check In Process Control (IPC)
 - Dosing system: rotary piston and/or peristaltic pumps
- Inert gas flushing during filling and/or stoppering
 - Easy integration with RABS or Isolator
 - Cleaning and Sterilization in Place (CIP/SIP)



Featured Model: Extrafill 10-A



OUTPUT

5.000 / 36.000 syringes / h

PRODUCT RANGE

Syringes 0,5 ml / 20 ml

Vials 2R / 30R

Cartridges 1 ml / 3 ml

MADE BY CORIMA



The technical specifications given in this catalogue are subject to change without prior notice or liability.

Size range may vary in accordance with the different applications.

The Marchesini Group constantly updates its products to meet market needs.



NERI | Division

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