



SteR

robota

one solution for sterilization

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March 2026

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AUTOMATION OF DENTAL INSTRUMENT REPROCESSING

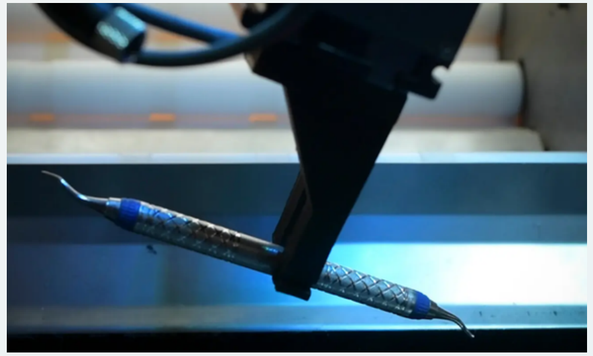
SteR, the revolution in the medical device reprocessing workflow. The world's first full-process solution. SteR protects healthcare professionals and patients by entrusting an anthropomorphic robot with the handling of contaminated devices, all the way through to autoclave loading. The risk of cross-infection is reduced to ZERO throughout the entire reprocessing process.





-Sterilization workflow automation
RFID traceability of trays
-Integration with autoclaves and digital systems
-Reduction of repetitive manual tasks





Smart solution for the full automation of the reprocessing workflow of reusable medical devices in the dental field.
The world's first solution combining collaborative robotics with the sterilization process and full data management.
Professionals and staff finally freed from demanding, repetitive, and low value-added tasks.



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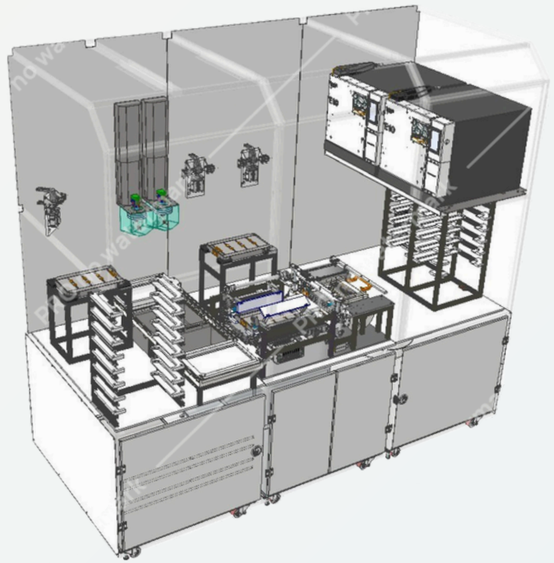
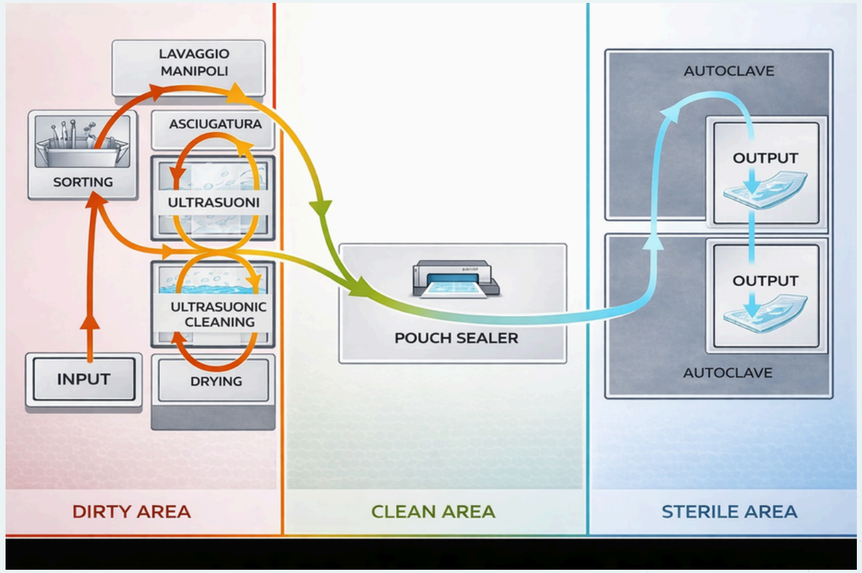
AUTOMATED REPROCESSING WORKFLOW







Soiled trays input → Ultrasonic Cleaner → Rinsing → Air drying → Tray assembly → Pouch sealer → Autoclaves Euronda E10 → Sterile output

Standard equipment

2 × ultrasonic tanks – 120 W, 7 L
2 × Euronda E10 autoclaves – 18 L
2 × air drying stations
2 × rotating instrument treatment stations
Integrated pouch sealer
UV-C LED self-sanitization system
Integrated compressor
Anthropomorphic robot KUKA KR6-R700-2
Dual water demineralization system
Initial set of trays and racks

Medical device features

Class I medical device
ISO 8 cleanroom environment (cell)
HEPA filtration
Process traceability
Operator panel
Remote support
Data exchange API
Continuous sanitization with UV-C LEDs (280 nm)

DISPOSITIVO MEDICO CLASSE I
CE

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SYSTEM TECHNOLOGY AND PERFORMANCE



SteR integrates advanced solutions for Industry 4.0 and 5.0 projects. The operator becomes the key player in the transformation, the clinical ecosystem is enriched with a revolutionary component, and a green approach is at the core of the solution's development.

Integrated technologies & savings

RFID tray tracking also outside the machine
Software APIs for integration with clinical systems
Predictive fault diagnostics
Predictive maintenance
Industry 4.0 / Transition 5.0 compatibility

17%
Productivity > +17%

15%
Energy savings > 15% compared to the manual process

40%
Consumables savings > 40%

Produzione	6 Vassoi/h (Max 24 Tray/h)
Nominal productivity	1 tray (max 4 trays) every 10 minutes
Soiled tray capacity (input)	8 (max 32 tray)
Water consumption	2,8 L/h
Detergent consumption	0,04 L/h
Integrated compressor pressure	4 bar
Maximum tray weight	1 kg
Tray dimensions	290 mm × 190 mm

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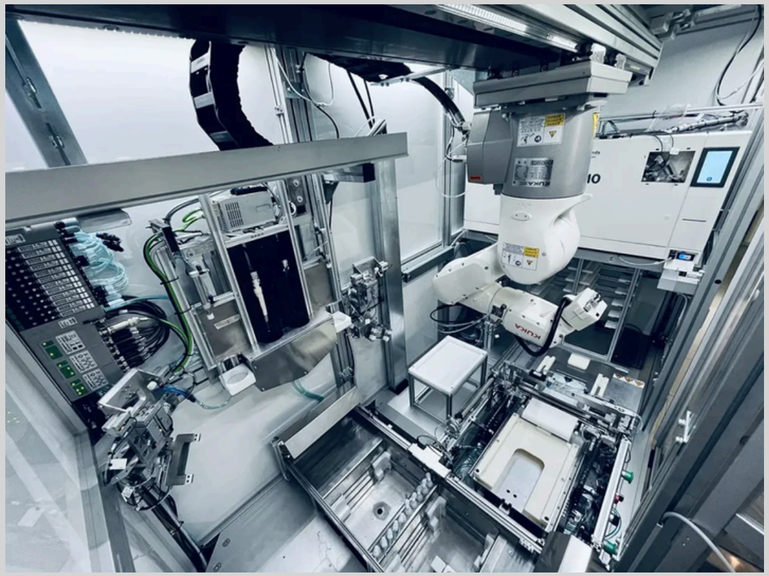

TECHNICAL SPECIFICATIONS AND INSTALLATION REQUIREMENTS

Test SteR placement in a real environment with Augmented Reality

Only for Android devices with a camera

Installation site requirements	
Dimension	**2400 × 2300 × 1100 mm**
Power supply	Three-phase
Maximum power consumption	9 kW
Network connection	Ethernet
Compressor	Integrated
Air exhaust	External duct
Water System	Dual demineralization
Drain	Surface water

Water supply specifications	
Hardness	<25 °f
Conductivity	<800 µS/cm
Iron	<0,2 mg/L
Manganese	<0,05 mg/L
pH	6,5 – 8
Temperatura	Non Rilevante
Turbidity	≤ 3 NTU
Free chlorine	≤ 0,1 mg/L

Consumables used	
Detergent	Mondial Deterferri Mac
Rotary instrument treatment	W&H Service Oil F1
Pouches	Roll 200mm Robota by Euronda

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ISO 9001
LL-C (Certification)

CERTIFIED
ISO 13485
BUREAU VERITAS

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