

SteelcoData Live & Pro

sterilization management & traceability systems





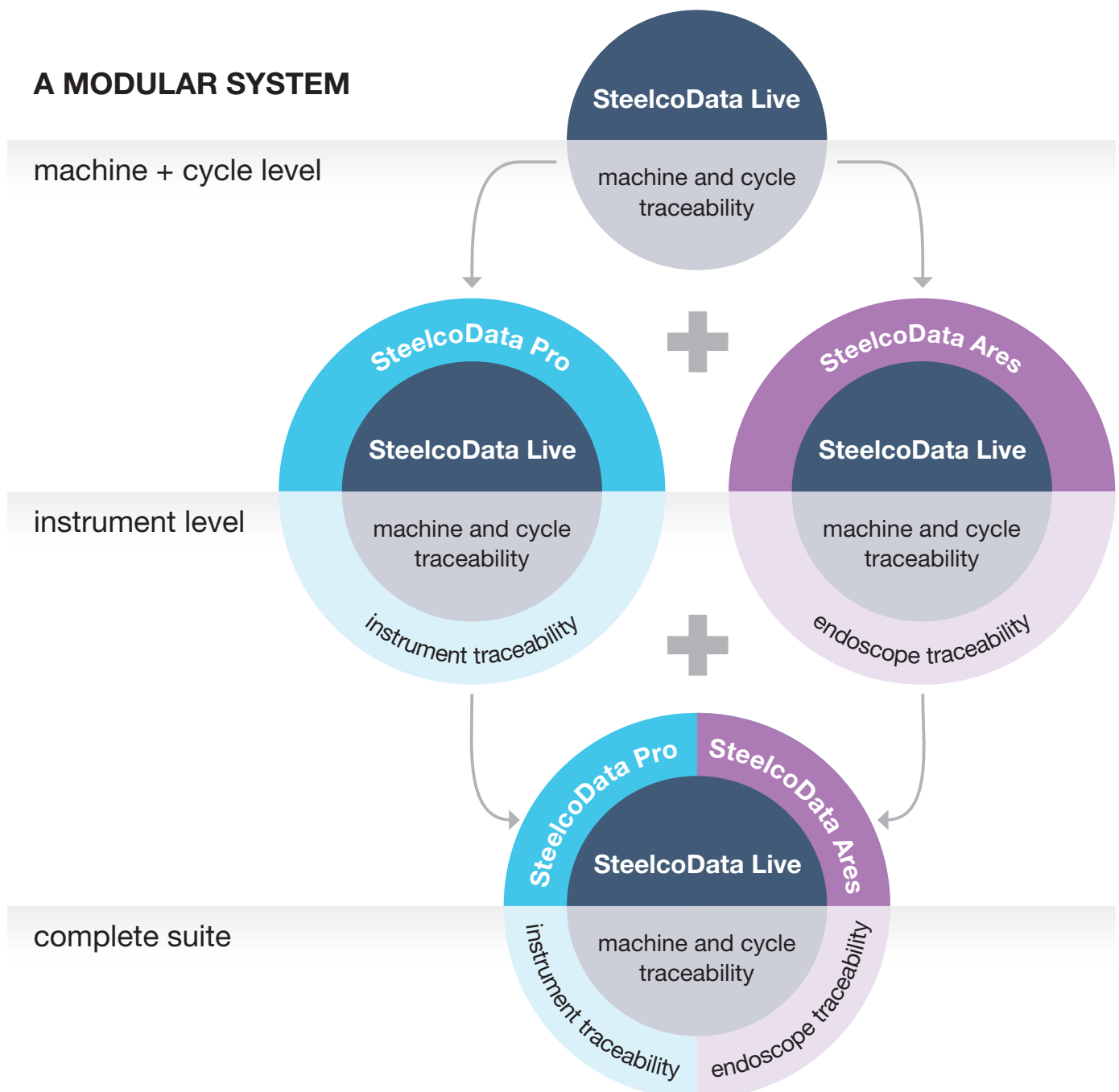
SteelcoData Live & Pro

sterilization management & traceability systems

Steelco helps you to ensure you have the right instruments in the right place at the right time, reprocessed to the correct standard in the minimum amount of time and the lowest cost on a consistent basis.

Steelco has developed a suite of different tailor-made solutions to ensure you have the information you need on the performance of your CSSD equipment, the cycles they are running as well as full traceability of surgical sets and instruments.

A MODULAR SYSTEM



THE BENEFITS OF A FULLY INTEGRATED SUITE

- ✓ Can start with a single workstation and configurable to any size of facility.
- ✓ Integrate with other client software programs such as patient scheduling, logistics, accounts, databases as well as remote service monitoring, etc...
- ✓ Be used at multiple locations within the healthcare network.
- ✓ Be able to be accessed by staff anywhere there is an internet connection and a Windows or iOS base computer/ tablet or other intelligent device.
- ✓ Provide customised reports and send alerts as needed.
- ✓ Is intuitive to use with excellent application and technical support available up to 24/7 in a multitude of languages depending on contract.

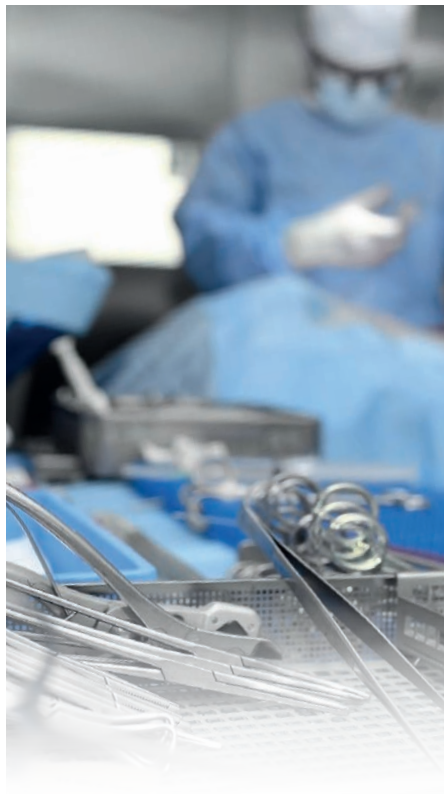


SteelcoData Live



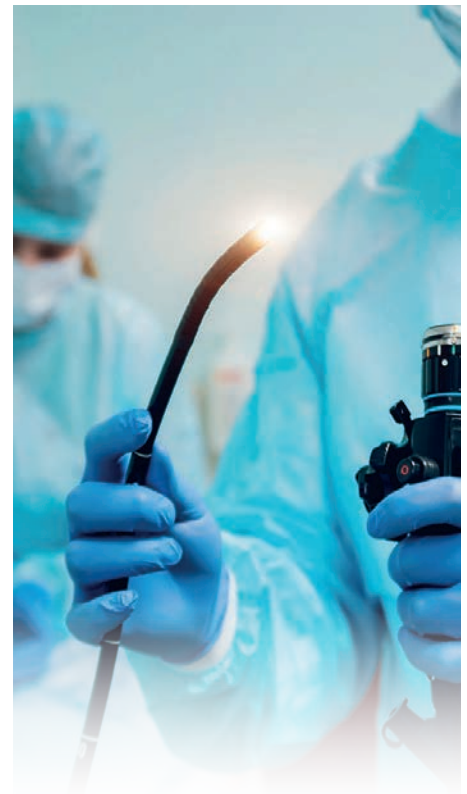
Allows you to see in real time as well as historic records of machine performance, cycles performed, any alarms as well as utility consumption.

SteelcoData Pro



Provides you the possibility to track sets as well as individual instruments from their use in the OR through each stage of reprocessing, transportation and storage until they are ready to be used in ORs again.

SteelcoData Ares



Enables you to track endoscope and their reprocessing from the patient trolley through each stage of endoscopes reprocessing, transportation and storage until they are ready to be used on the next patient.

See dedicated brochure.



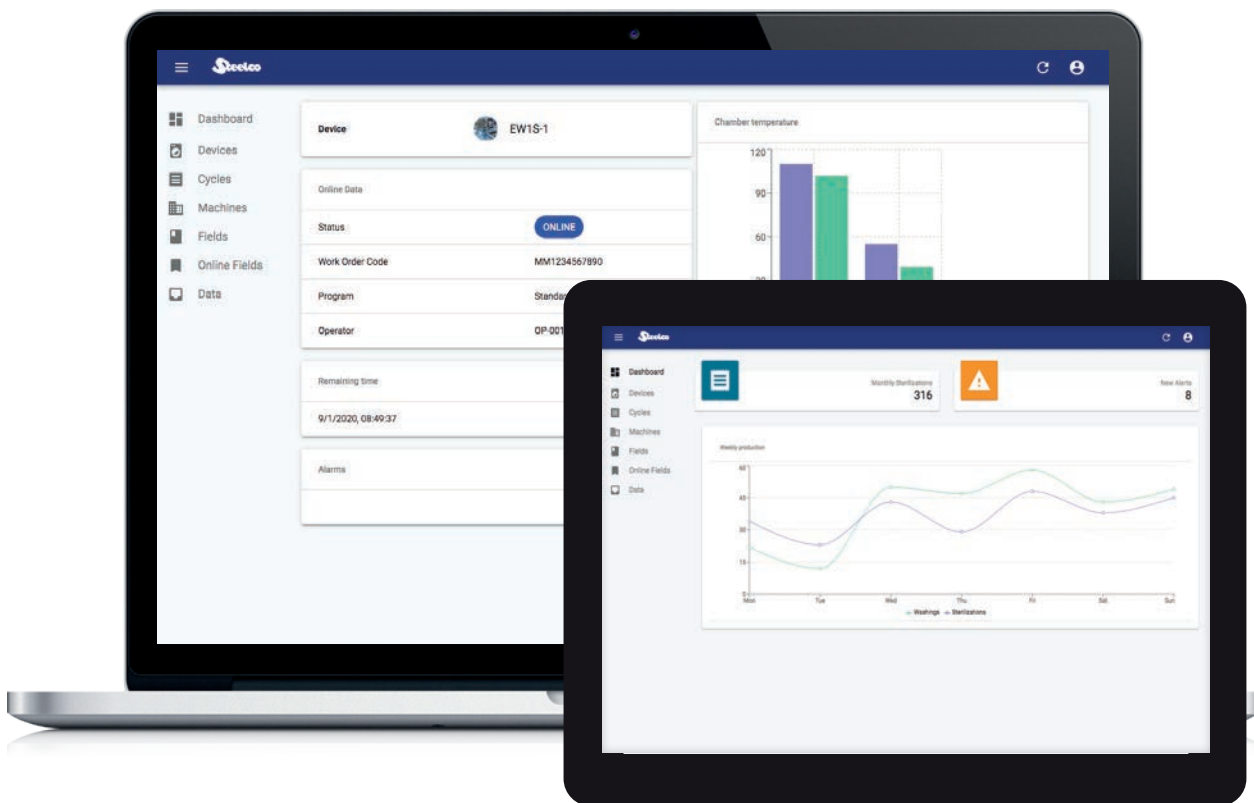
SteelcoData Live

machine and cycle traceability

SteelcoData Live

The software has been designed to accomplish data acquisition from Steelco devices. Information collected in real time are traced and efficiently visualized for device monitoring and data management.

SteelcoData Live is also the connection between Steelco machines and any software processing the data collected such as SteelcoData Pro and SteelcoData Ares.



KEY FEATURES



Steelco Data Live Software collects and records data from Steelco machines.



A user-friendly web interface shows real time machine statuses (video-wall or tablet wi-fi or workstation).



All the electronic stored data can be exported in different formats (.pdf, .xlsx), producing reports which can replace the paper tickets.

MAIN ADVANTAGES



WEB BASED – CLOUD READY

Users can log into the system through a standard web browser.
No client installation is required.



MODULAR

Starting with basic features, SteelcoData Live can be implemented in time with additional modules according to the specific needs of the customer.



ECO FRIENDLY

The collected data from the machine is stored in pdf reports which can replace paper tickets.



PARAMETERIZABLE

The system can be completely parameterized and configured using access policies that allow operators to display only information in their area of competence.



INTEGRATION

SteelcoData Live is designed to be integrated with the different equipments used in the CSSD and collection of their information (instrument washers, sterilizers, endoscope washers, drying cabinets) and with other software applications.



MULTI LANGUAGE

Available in English, German, Italian, French, Spanish, Russian and many other languages.



USER FRIENDLY

Guided procedures and simple user interface (touchscreen monitors).

MAIN COMPONENTS

DASHBOARD

The dashboard shows a graph with the number of washes and sterilizations happened in the current week.

DEVICES

It's possible to visualise a list of the machines in a CSSD, check their current statuses and look back at cycles. At any point the machine ID details can be updated or new machines can be added.





SteelcoData Pro

sterilization management & traceability system

SteelcoData Pro

The software has been designed to accomplish operational needs of central sterile service departments (CSSDs), to trace efficiently information and to provide CSSDs with an accurate monitoring tool that helps keeping high productivity standards.

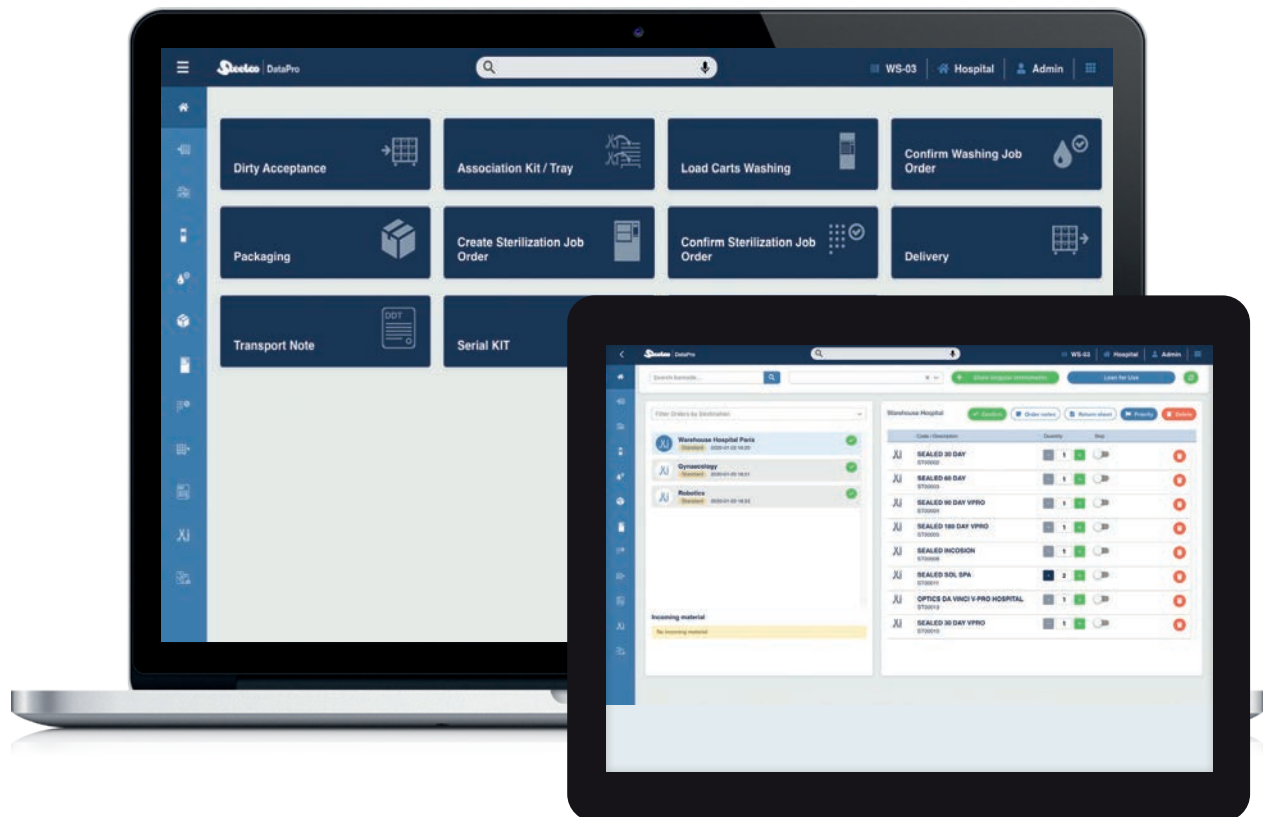
INTRODUCTION

SteelcoData Pro provides leading-edge technologies to manage information with the aim of improving daily activities in the CSSD. The system can efficiently monitor activities in every area of the CSSD so that sterile departments can progressively perfect their services and results.

Modularity is **SteelcoData Pro**'s main feature: the different areas of the CSSD are provided with different modules that cover all their different needs.

Modules can be easily activated or deactivated or configured according to customers' requirements and the types of activities. This modular architecture allows the system to be easily modified in future due to improvements and/or to different needs of CSSDs.

Recording information in the production and the shipment area, in the warehouse and tracking times between the different areas and in production allows **SteelcoData Pro** to define precisely production costs for cost centre.



Full traceability of procedures in all areas of the CSSD.

SYSTEM FEATURES

- ✓ results in line with hospital needs
- ✓ respect of high security standards required
- ✓ reliable information and data entirety
- ✓ traceability and backward traceability of user activities and material handling
- ✓ full coverage of activities in the CSSD
- ✓ real-time analysis of the CSSD
- ✓ efficiency improvement
- ✓ procedure automation avoiding unnecessary steps
- ✓ users and workstations can display only activities in their area of competence
- ✓ effective information sharing with customers

MAIN ADVANTAGES



WEB INTERFACE – CLOUD READY

Users can log into the system using a standard browser from any workstation within the corporate intranet or using the Internet if they are outside of the hospital.
No client installation required.



MODULAR

Starting with basic features, SteelcoData Pro can be implemented in time with additional modules according to the specific needs of the CSSD.



PARAMETERIZABLE

The system can be completely parameterized and configured by the company using access policies that allow operators to display only information in their area of competence.



INTEGRATION

Integration with the different equipments used in the CSSD and collection of their information (instrument washers, sterilizers), integration with administration and finance (customer contracts, customer masters, delivery notes, invoices) and warehouse systems (in CSSDs, hospitals)



USER FRIENDLY

Guided procedures and simple user interface (touchscreen monitors).



TOUCH SCREEN



VOCAL CONTROL



BARCODE



DATAMATRIX™



RFID TAGS



3D SCANNER



MULTI LANGUAGE

Available in English, German, Italian, French, Spanish, Russian and many other languages.



MULTI...

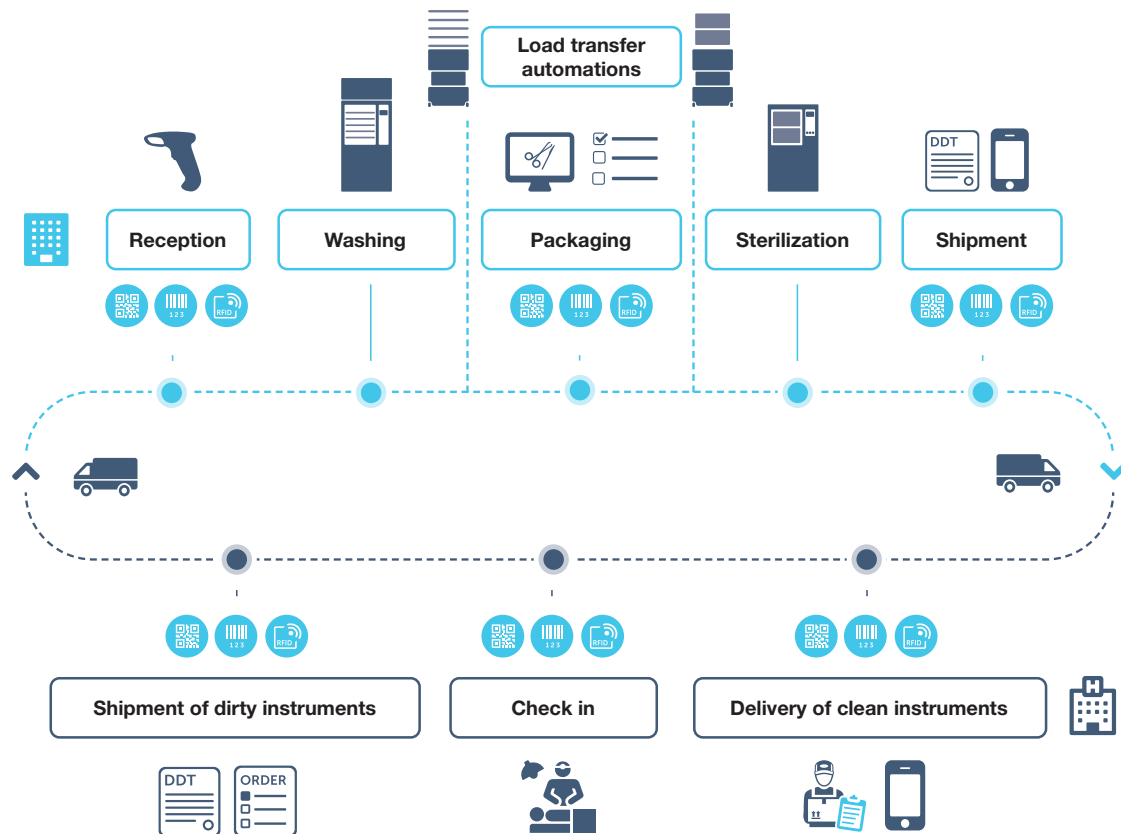
Multi customers and CSSD, Multi platform and multi database.



Pro

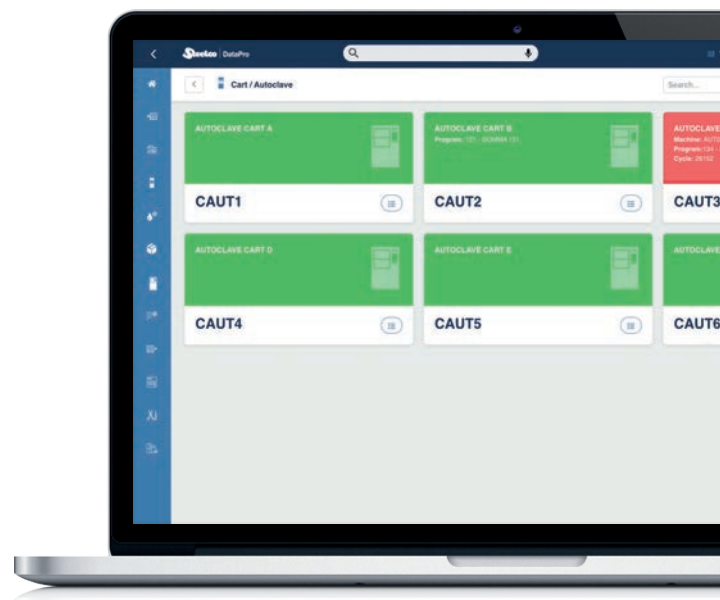
SURGICAL INSTRUMENTS MANAGEMENT WORKFLOW

SteelcoData Pro is a complete software application designed to trace surgical instruments in central sterile service departments (CSSDs). The software architecture is based on different check-points that every instrument/tray has to succeed in order to be processed by the CSSD and move to the next area/department.



When instruments move to the next area in the CSSD, the system checks that the previous step was successfully undertaken. Operators are acoustically advised if operations have been done correctly.

Surgical instruments to be sterilized can be codified using Datamatrix™, Barcodes, RFID tags, as identification system, including the use of 3D scanners, touch screen monitors and vocal control.



WORKFLOW

SteelcoData Pro workflow is based on the following steps:

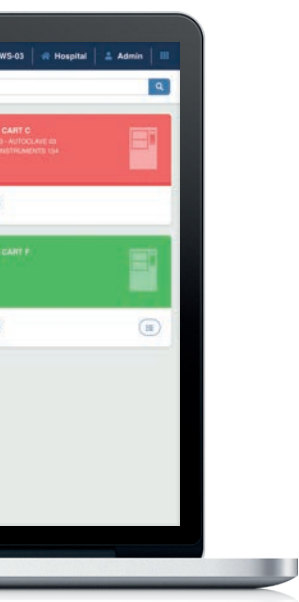
- 1 **RECEPTION**
Identification of incoming instruments owned or rented instruments / loans for use and identification of special decontamination/washing methods needed to be performed as well as their priorities.
- 2 **WASHING** (including load transfer automations when present)
Every instrument/tray in the washing area is assigned to a specific container and an instrument washer, users can trace them at any time, getting information about their location and progress. Electronic collection of washing results and working procedures (washing program, procedure serial number).
- 3 **PACKAGING** (including load transfer automations when present)
Instrument packaging according to specifications defined for containers or surgical packs. Check of surgical instruments (both quantities than use/function) and management of potential non conformities. In this case instruments are sent to maintenance or they are sent back to the washing area. At this point the system prints a tag with traceability information and production lot.
- 4 **STERILIZATION**
Match trays and surgical packs with sterilizers to start sterilization procedures and print of the sterilization validation report. Management of contract work for special instruments that may be sterilized by third parties.
- 5 **SHIPMENT**
The system automatically prints delivery notes with indication of sterilization lots, suggesting the destination ward/customer for the trays.

HOSPITAL

In hospitals the system allows users to:

- 1 **DELIVERY OF CLEAN INSTRUMENTS**
Check deliveries and warehouse loads when sterilized instruments arrive.
- 2 **CHECK IN**
Check into the surgical block to use instruments in operating rooms. Instruments are matched to their cost centre and surgical operation; these information are saved by the system in order to trace all performed activities.
- 3 **SHIPMENT OF DIRTY INSTRUMENTS**
Pick-up of instruments to be sent to the CSSD. Instruments and trays are unloaded from the hospital warehouse and then loaded in the CSSD warehouse.

SteelcoData Pro can manage both hospitals' owned instruments than loans for use, with different invoicing rules.





Pro

BENEFITS

TRACEABILITY

- ✓ full traceability in production departments

STARTUP

- ✓ Short startup times and implementation of new workstations

SECURITY & PRIVACY

- ✓ System administrators can grant deny and check authorizations to access the system and configure security policies
- ✓ Avoiding the access to unauthorized users

MONITORING ANALYSIS AND REPORTING SYSTEM

- ✓ Full and detailed reports to analyze key performance indicators and production costs
- ✓ Electronic record keeping and invoice automation

ENTERPRISE SYSTEM

- ✓ It can be used in small CSSDs or in bigger hospitals
- ✓ In case there are several CSSDs, the system can manage the process at multiple sites
- ✓ Sterilization can be carried out by an external company

PROCESS CONTROL

- ✓ Complete coverage of all areas/departments in the CSSD
- ✓ Support to all users in CSSDs using check-points, check-lists and help-on-line
- ✓ Visual and acoustic warnings in case of failed checks in every procedure
- ✓ Specific tools to support and speed up user effectiveness (for ex. optical and Datamatrix readers, RFID tags, wireless printers,...)
- ✓ Workflows can be completely customized

HELP DESK SUPPORT

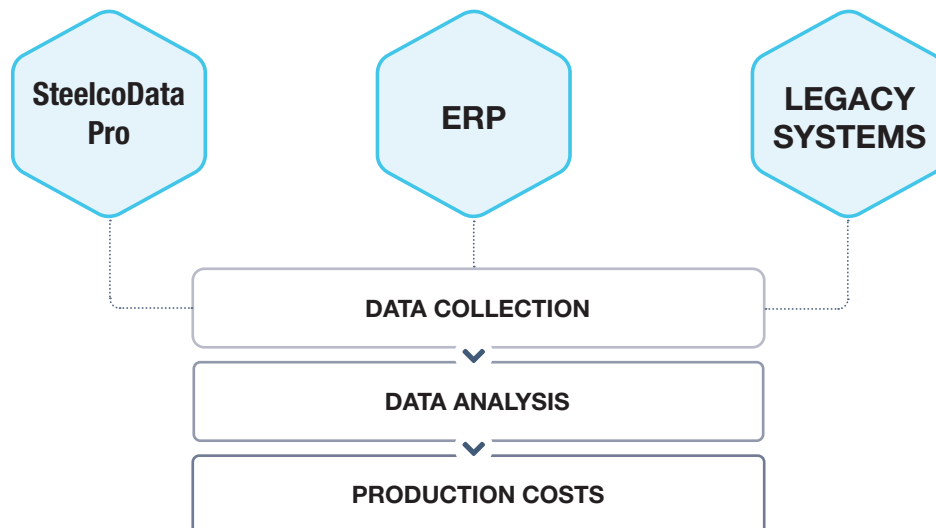
- ✓ Available in English, German, Italian, French, Spanish, Russian and many other languages

MONITORING SERVICE

- ✓ The system and all devices can be remotely monitored by Helpdesk service

MANAGEMENT CONTROL AND COST ACCOUNTING

SteelcoData Pro records information about production, warehouse handlings, shipment, tracking times spent between the different departments/areas and procedures. For this reason it can easily analyze production costs for cost centre.



Management control functions allow the CSSD to reach fixed targets in operational scheduling, monitoring the gap between scheduled targets and results achieved using specific indicators.

Those information can be shared with the management in order to take proper actions.

The integration between **SteelcoData Pro** and any management software allows corporate management to get statistics and analyze production cost related to:

- ✓ user performances and costs
- ✓ working times and costs of equipments
- ✓ production times and costs
- ✓ time needed to dispatch orders and their delivery

HARDWARE DEVICES



All-in-one personal computers



Barcode readers or RFID



Mobile devices



Datamatrix™ readers



Barcode printers



3D scanners





Pro

SURGICAL INSTRUMENT SCANNER

Surgical Instrument Scanner is a configurable smart traceability workstation that supports CSSD operators at packing stations by **quickly identifying groups of surgical instruments** thanks to **Artificial Intelligence technologies for recognition**.

The scanner works with or without DataMatrix or RFID and does not need any mark on the instruments.

The operator is then driven step by step in reassembling surgical instrument kits.



WORKSTATION COMPONENTS



CAMERA/S

Cameras to frame the instruments on the table and recognize them



PROJECTOR

Projector to guide the operator during the recomposition of the kit



TOUCH-SCREEN

Touch-screen to interact with traceability software



VOICE RECOGNITION

Microphone for voice instructions

KEY FEATURES



MODULAR

The workstation can be composed according to customer needs with single or double camera for a wider instrument identification surface.
See dedicated table.



HANDS FREE CONTROL

The system can be integrated with a microphone for voice instructions (via a voice recognition system) instead of the usual touch screen to interact with the traceability software.



POSITION INDEPENDENT

The system recognizes all the instruments on the workstation at once, independently of their positions on the table.
The recognition of the instruments is based only on physical parameters: shape, size, color, etc.



EASY PICK-UP

The workstation can also include a projector to guide the operator during the recomposition of the kit by highlighting the instruments to pick up in the proper order directly on the packing table.



HANDLING BIG SETS

The system is suitable for big sets (100+ instruments) that can be recognized in few steps.



INTEGRATION

The system is integrated with SteelcoData Pro hence it automatically communicates all kit information directly to the software.

MAIN BENEFITS



IMPROVED PATIENT SAFETY

- Recognition of the content of surgical kits
- Creation of detailed reports including check-list, number of instruments, comments and anomalies
- Tray accurately reassembled according to the CSSD requirements.
- Reduction of human error, increasing the quality of the whole process



TIME SAVING

- Recognition of the content of surgical kits
- Creation of detailed reports including check-list, number of instruments, comments and anomalies



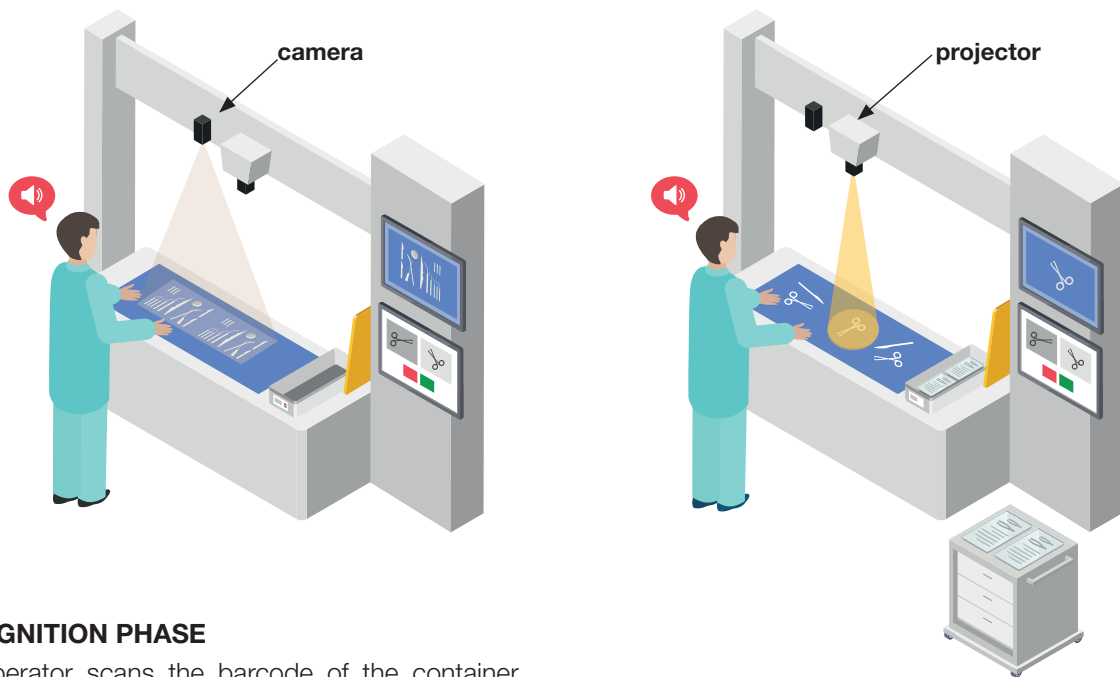
SIMPLIFIES COMPLEXITY

Suitable for complex and big surgical kits.
Manages the complete inventory of the CSSD instruments



Pro

SURGICAL INSTRUMENT SCANNER - WORKFLOW



RECOGNITION PHASE

The operator scans the barcode of the container. All the kit information is uploaded and key pieces of information are projected on the table. The instruments are placed on the table.

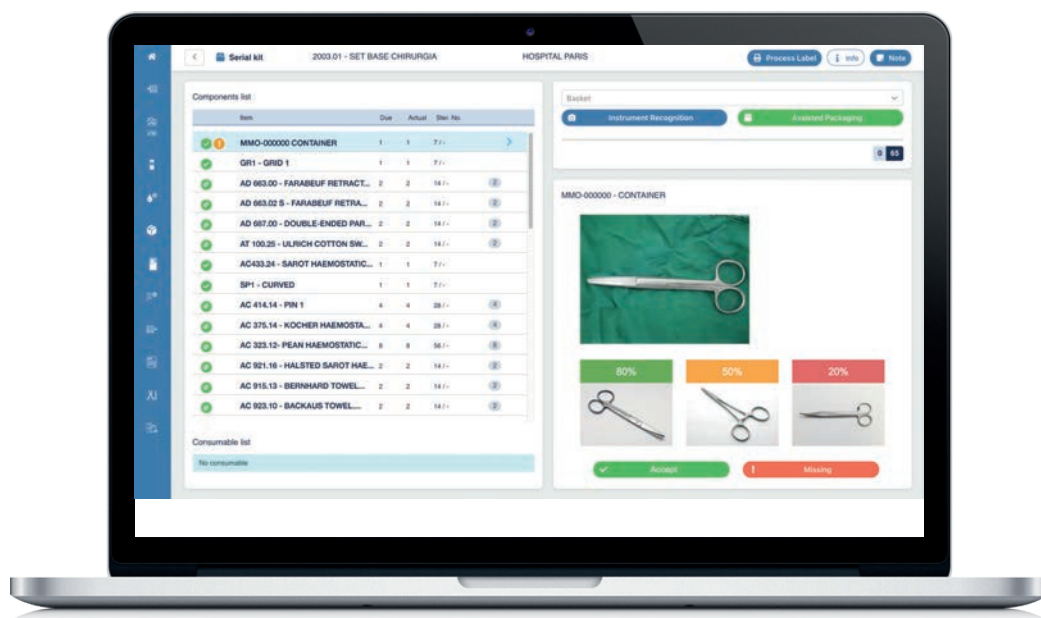
The combined work of the cameras with algorithms allows recognition of all the instruments at once.

Once the instruments are recognized, the traceability software is automatically updated and produces a report comprising a check-list and any possible irregularities (e.g., missing instruments, instruments not belonging to the current kit, etc).

KIT REASSEMBLING

A visual and/or acoustic signal guides the operator through kit's reassembly. Following a predefined order, the instruments are illuminated by the projector and ready to be placed in the container.

Once they are in the container, the system automatically lights up the next (group of) instrument(s), until all the tools are correctly positioned in the container, now ready for the sterilization.



The background of the slide is a faded image of a worker in a light blue lab coat and safety glasses, using a yellow and black handheld barcode scanner. The worker is positioned on the left side of the frame, and the scanner is held in their right hand, pointing towards the right. In the foreground, there are several metal mesh baskets, some containing small white labels. The overall scene is brightly lit, suggesting an industrial or laboratory environment.

SteelcoData Live

SteelcoData Pro

SteelcoData Ares



Miele Group Member

ARES - flexible endoscope automated reprocessing system



Dental washer disinfectors

Flusher disinfectors

Steam sterilizing autoclaves



Washer disinfectors for central of sterilization departments

Laboratory glassware washer disinfectors



Washing and sterilizing systems for life science and pharmaceutical applications

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