

safeGROSS 150 *PRO*

Grossing station



Elevating laboratory efficiency
with unrivalled safety,
enhanced ergonomics and versatility



LOGIBIOTECH

MAKING ROBOTICS. TAKING CARE.



safeGROSS

WHERE INNOVATION AND FLEXIBILITY MEET SAFETY AT EVERY TURN

Designed with adaptability in mind, **safeGROSS 150 PRO** boasts unique features tailored to meet diverse needs of laboratories of any dimension and to ensure **seamless integration into any workspace**.

From **configurable settings** to **ergonomic design elements**, every aspect is meticulously crafted to enhance **safety, efficiency, operator comfort and precision in specimen handling**.

What truly sets our grossing stations apart is an **advanced 3-way ventilation system** which includes a **groundbreaking patented feature (air curtain)**, designed to **safeguard operators from formalin fumes** and other **harmful substances**.

This innovative technology not only prioritizes the **well-being of laboratory staff** but also **ensures compliance** with the most recent safety standards.



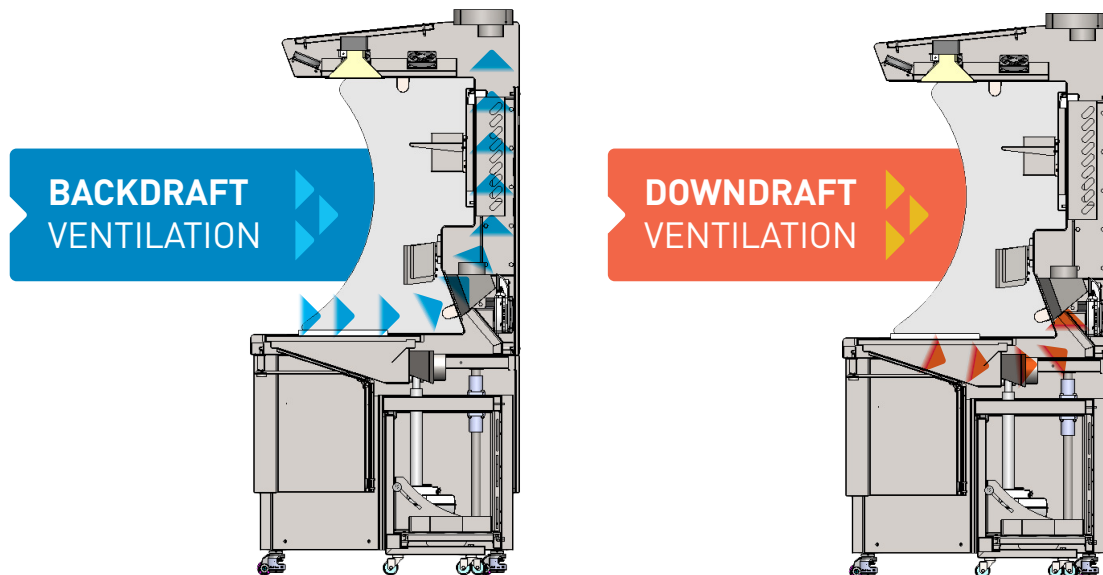
Unmatched safety

Dual draft ventilation

In the **dual draft** configuration, **backdraft and downdraft dynamics** are combined **to pull formalin fumes** and other dangerous vapors and aerosols **both down and away from personnel**, from the rear and the bottom. Airflow is drawn through the perforated work surface panels and

a backdraft grid located vertically behind the work surface.

For enhanced operator safety, the **backdraft** system grid is fixed to reach a maximum height of 130 cm so that harmful fumes cannot reach the operator's respiratory tract.



safeGROSS 150 *PRO*: certified advanced safety

- Ventilation system certified by an accredited company for smoke containment*
- *Safe stress test* carried out in cooperation with Polo Universitario of Prato using 38% formalin, ProCeas formaldehyde analyzer** and FLIR Optical Gas Imaging (OGI) cold thermal imaging camera, which detected a value of 0.05 ppm*** homogeneous over the entire length of the workstation during both the “at rest” and “in operation” phases.

*in compliance with: UNI EN 12469:2001 Annex C; UNI EN 14175-2:2004 Part 1, 2, 3; UNI/TS 11710:218; D. lgs 9 April 2008, no. 81 and further modifications; UE Regulation no. 517/2014 - April 16 2014; D.P.R. November 16 2018, no. 146

**Level 2 instrument

***current SCOEL limit value for Europe: 0.5 ppm; from July 2024 changes to 0.3 ppm; NIOSH limit (USA): 0.1 ppm

150 PRO

Patented air curtain protection

The **air curtain**, driven by independent fans enabled by the operator, **prevents the dispersion of harmful substances, enhancing workplace safety.**

Integrated into the workstation, this unique solution serves dual functions:

- **creating a barrier of clean air to contain formalin fumes** and other dangerous substances
- **directing carcinogenic elements downwards** for extraction.

This unique system safeguards both operator and surrounding environment from harmful agents and protects processed materials from contamination.



Quiet and gentle ventilation does not disturb the operator during procedures and does not interfere with the imaging system.

ADDITIONAL SAFETY SYSTEMS

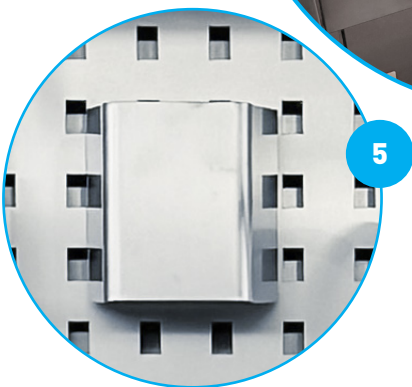
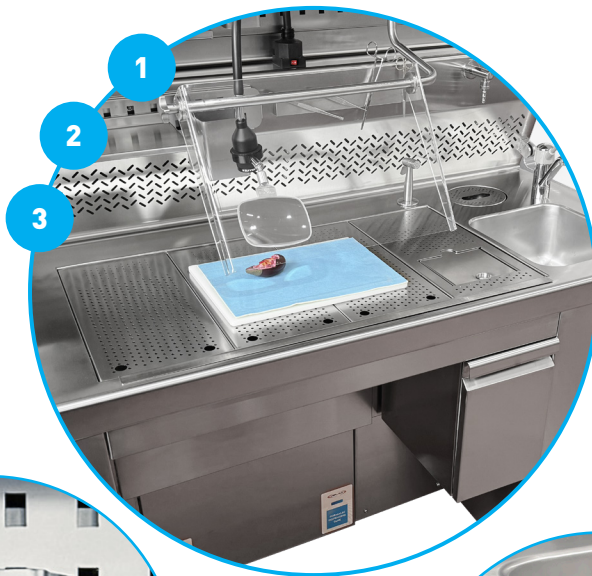
- **3 high-efficiency recessed LED light sources** with anti-reflection and anti-glare optics ensure operator safety in compliance with reg. EN 60598-1-CEI 34.21 on photobiological risk and optimal quality of images on the onboard imaging system
- **Seamless work surface** (one metal sheet* with no joints and screws) for complete decontamination
- **Non-return valves** prevent contaminated water returning to the network
- **Exhausted formalin collection tank** on the worktop
- **Tank caps** avoid leakage of paraformaldehyde accumulated in the pipes
- **Formalin alarms** (maximum filling for formalin waste tank, formalin dispensing tank empty)

* safeGROSS 150 PRO is made entirely of stainless steel AISI 304



Perfect ergonomic design for ideal operator comfort and efficiency

- 1 Large functional worktop** with a depth of 70 cm depth (total workstation depth of 90 cm)
- 2 “Optimal area” workspace design** and work surface equipped with a wide range of standard accessories for easier specimen preparation (*see separate section for accessories*)
- 3 Leg room of 38 cm**
- 4 High-precision adjustable elevation** to accommodate all pathology lab personnel and to ensure operator-friendly use
- 5 Perforated removable rear panel** - space saving and organized storage of accessories
- 6 Rounded front corners** (10 mm) - safer and more comfortable



safeGROSS

Ergonomics tailored to individual needs

Worktop height and optimal area

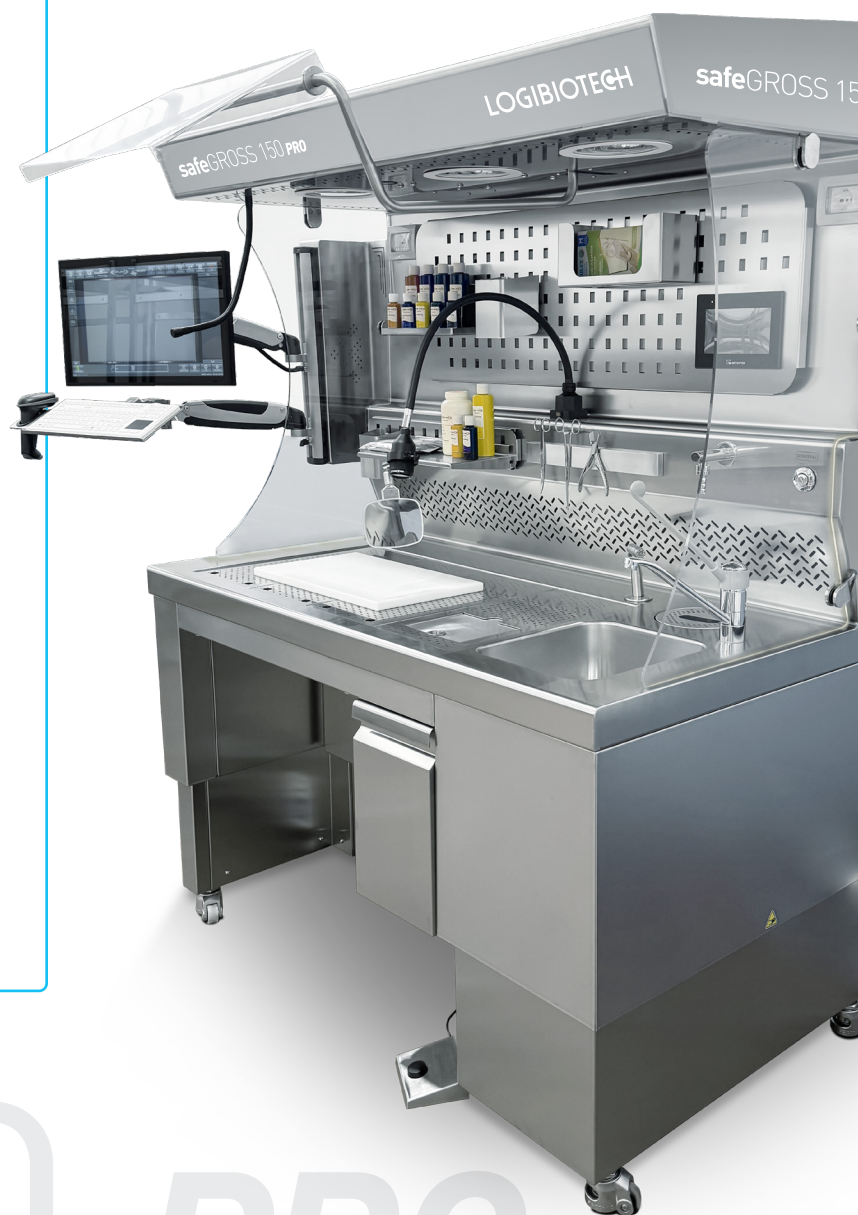
The **worktop height** is carefully crafted for **comfortable use whether sitting or standing**. These features keep the “optimal area” centrally accessible, and the 150-cm width provides ease of use, allowing the operator to have everything needed at hand during a procedure.

By “optimal area,” we refer to the section of the station easily reachable by the operator, **mitigating the risk of repetitive strain injuries** caused by unnatural movements throughout the workday.

Elevation and stability

Two electro-mechanical actuators, featuring millimeter-level adjustment and boasting a degree of protection against liquids and dust rated IPX6, **facilitate elevation and allow users to store their preferred positions** (total elevation range of 190/220 cm – worktop 80/110 cm).

Six stainless steel AISI 304 sliding columns, supported by 12 linear bearings, are employed to minimize vibrations and maintain station stability during elevation.





Efficient and user-friendly process control and traceability

A **PLC** with fully decontaminable 7" touchscreen monitor is integrated in the grossing station for **full process control**.

The digital control panel is separated from the

image system to ensure the privacy of sensitive data and the remote control option makes it possible to operate also from a distance, enhancing accessibility.

Main functions

- LED lights control
- Elevation control
- Selection of preferred position
- Ventilation control
- Alarm display
- Accessories management
- Remote assistance
- Software updates



safeGROSS



ENDOVISION integrated imaging system

safeGROSS 150 PRO is equipped with an advanced imaging system designed for touchscreen displays for the **digital management of operational processes** and for **the creation of reports in compliance** with DICOM and HL7 standards.

This imaging system is ideal for capturing and managing video, voice, and image content from the high-resolution camera, enabling seamless archiving for future review.

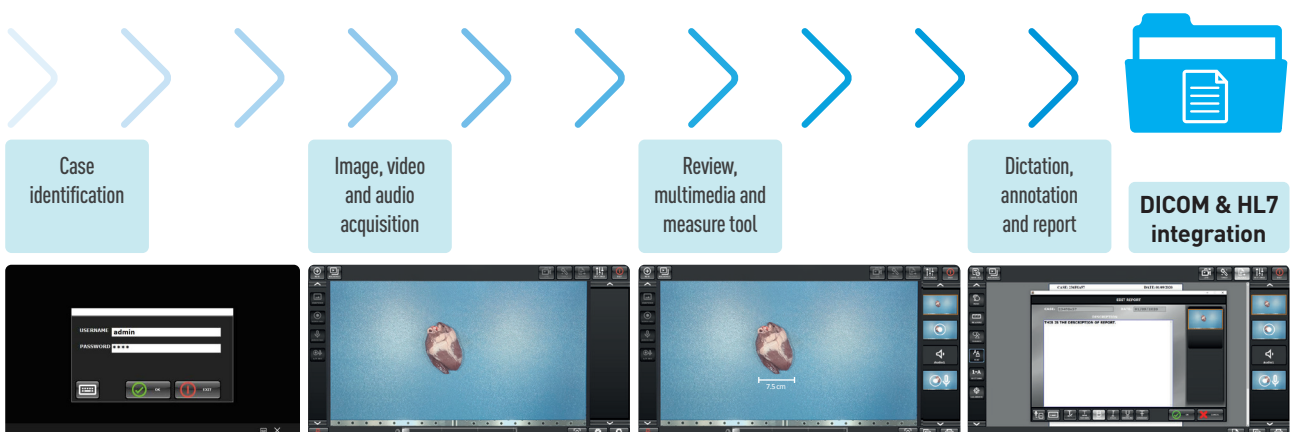
With the aid of the pedals, touchscreen, and voice commands, the operator is enabled to carry out the following tasks:

- Take pictures (FHD camera)*
- Video recording (FHD camera)*
- Voice notes recording
- Image editing (to add measures, areas, margins, comments, etc.)
- Voice dictation for the creation of reports without using the keyboard
- 20x zoom in-out
- Share content in a streaming session



The system also includes:
medical keyboard with integrated touchpad and wireless barcode reader

*4K camera available on request





Advanced modularity and flexibility

Selecting the appropriate setup is a breeze with our array of pre-configured grossing station models, meticulously designed to fit a laboratory's specific needs.

safeGROSS *PRO* is available in the standard configuration with a width of 150 cm (safeGROSS 150 *PRO*). Other widths are available on request.



240 cm

200 cm

Standard configuration - 150 cm

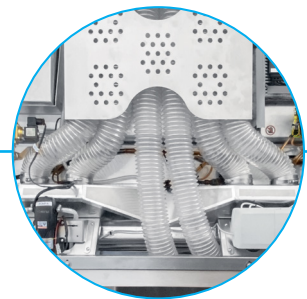
120 cm

90 cm

GROSS 150 PRO

safeGROSS 150 PRO, our premium grossing station with an elevating configuration, is equipped with the following essential features, equipment and systems:

- Made entirely of stainless steel AISI 304 (without visible joints and screws)
- Dual draft ventilation (backdraft+downdraft)
- Air curtain ventilation system
- ENDOVISION imaging system
- Suction conveyor connecting the 3 suction ducts into one
- **Formalin collection system:** 10- or 20-l collection tank. Warning lights and sound indicators warn when tank is nearly full
- **Formalin dispensing system:** Integrated in the grossing station: pump, 10- or 20-l tank and dispensing tap. Reserve formalin container is included. Warning lights and sound indicators warn when formalin reaches low levels
- Integrated LED lights
- Worktop at cm 96 h
- Medical digital touch screen control panel
- Sink (30x20x18 h cm)
- Mixer tap
- Stainless steel ruler
- Magnetic tool holder bar
- Storage compartments
- Electrical socket with IP55 protection
- USB socket
- Polyethylene cutting board
- Towel holder
- Shelves
- Main switch
- Light on flexible arm with with 4x magnifying glass
- Foot pedal for hot and cold water control
- 2.5 m hand shower with flexible hose
- Perimeter rinsing system
- 0.75 HP waste shredder
- Ventilated bin integrated in the work surface
- Lexan splash guard
- Particulate filter (Ø 250) for Plenum **safeGROSS**
- Circular potassium permanganate filter (Ø 250) for Plenum **safeGROSS**



Additionally, you have the freedom to tailor your setup to your unique requirements. We're here to help you create the ideal grossing station.

Contact: marketing@logibiotech.com

LOGIBIOTECH

LOGIBIOTECH srl

Registered Office

Via Fontana, 16 - 20122 Milano, Italy

Operating Headquarters

Via Emilia SS9 443 - 29010 Alseno (PC), Italy

www.logibiotech.com

e-mail: info@logibiotech.com

PEC: amministrazione@pec.logibiotech.com

VAT: IT10961670964

