



AUTOPLAK

Efficiency for the
microbiology laboratory

The AUTOPLAK fully automates front-end plate streaking processes, broth inoculation, slide preparation, and bi-plate streaking, enhancing productivity and ensuring reliability.



“In the current context, AUTOPLAK stands out as an innovative, high-tech solution that enhances *laboratory efficiency* while ensuring *quality service and reliable results*, all while optimizing footprint.”

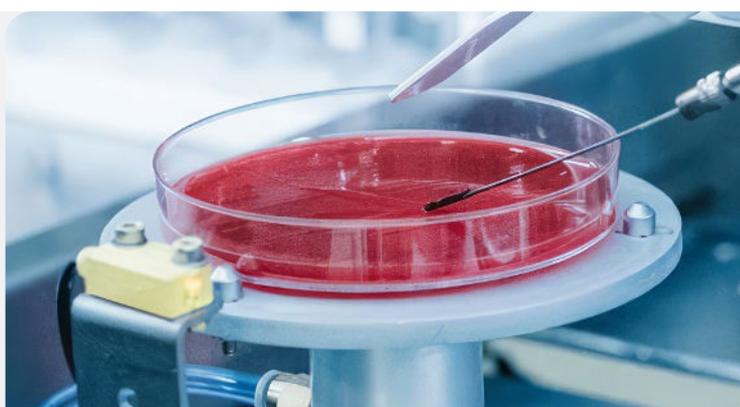
Processes *covered*

The degree of automation must align with the unique requirements of each laboratory, taking into account factors such as testing capacity, range of assays, type of diagnostics performed, and available

budget. AUTOPLAK, available in two variants with optional configurations, automates the processes below to deliver streamlined, flexible, and consistent workflows.

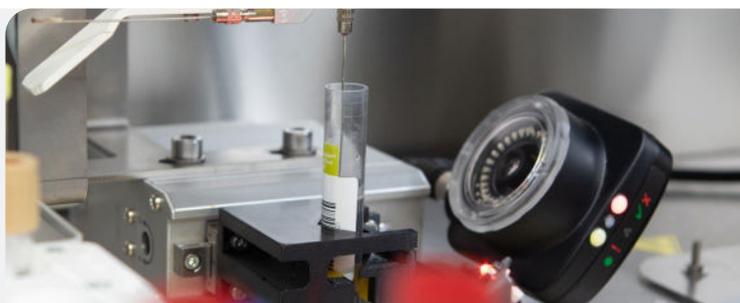
Plate streaking

Enhance the efficiency of your laboratory by automating inoculation and streaking. AUTOPLAK is a flexible and configurable system that uses four different inoculation loops and allows customization of streaking protocols, as well as accepts a wide variety of tubes and culture media.



Broth inoculation

Expand the functionality to the Advanced variant with our broth inoculation module to inoculate enrichment broth with barcode printing on the tube.



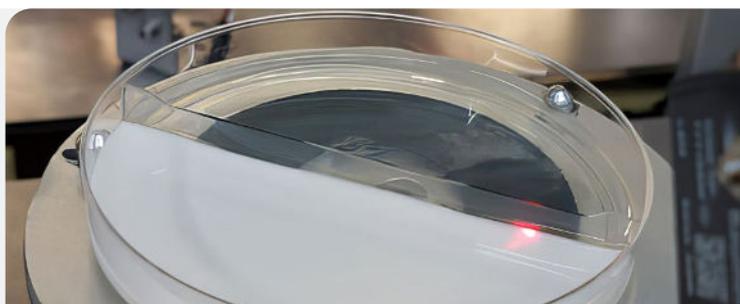
Slide preparation

Boost operational efficiency with AUTOPLAK's Gram slide preparation module, featuring automated streaking and precise barcode printing to streamline workflows and enhance accuracy.



Bi-plate streaking

Unlock advanced functionalities by adding the robust module from our bi-plate streaker. This optional module permits precise and efficient streaking on bi-plate media.



6 reasons for *choosing AUTOPLAK*

Choosing the right automation solution is a critical decision for laboratories aiming to optimize performance, quality, and efficiency. AUTOPLAK has been developed with a strong focus on flexibility and scalability, allowing it to adapt to a wide range of laboratory workflows and operational requirements. By combining

reliable technology, configurable options, and consistent results, AUTOPLAK supports laboratories in meeting both current demands and future challenges. The following six reasons explain why AUTOPLAK is a valuable and future-ready automation solution.



Productivity, efficiency and reliability

Automating inoculation and streaking, ensuring traceability and repeatability, minimizing the risk of contamination through safe and reliable sample processing, simplifying challenging sample processing, and integrating the system into your laboratory's LIS.



Flexibility for customised configuration

Two instrument variants (Advanced and Complete) are available to meet different laboratory needs and processes, with optional features to enhance functionality.



We optimise space in the laboratory

AUTOPLAK is the most compact system, requiring the least space in the laboratory. Only frontal clearance required.



Excellent streaking quality

Thanks to a reliable and robust automatic inoculation and streaking process that also prevents cross-contamination and includes a HEPA filter.



Quick to install and ergonomic

AUTOPLAK is quickly installed without disrupting laboratory workflows and is optimized for ergonomic use.



Highly versatile

Continuous loading via independent drawers, a wide range of automatically detected tubes and media, Gram and bi-plate streaking and inoculation in enrichment media.

Product variants

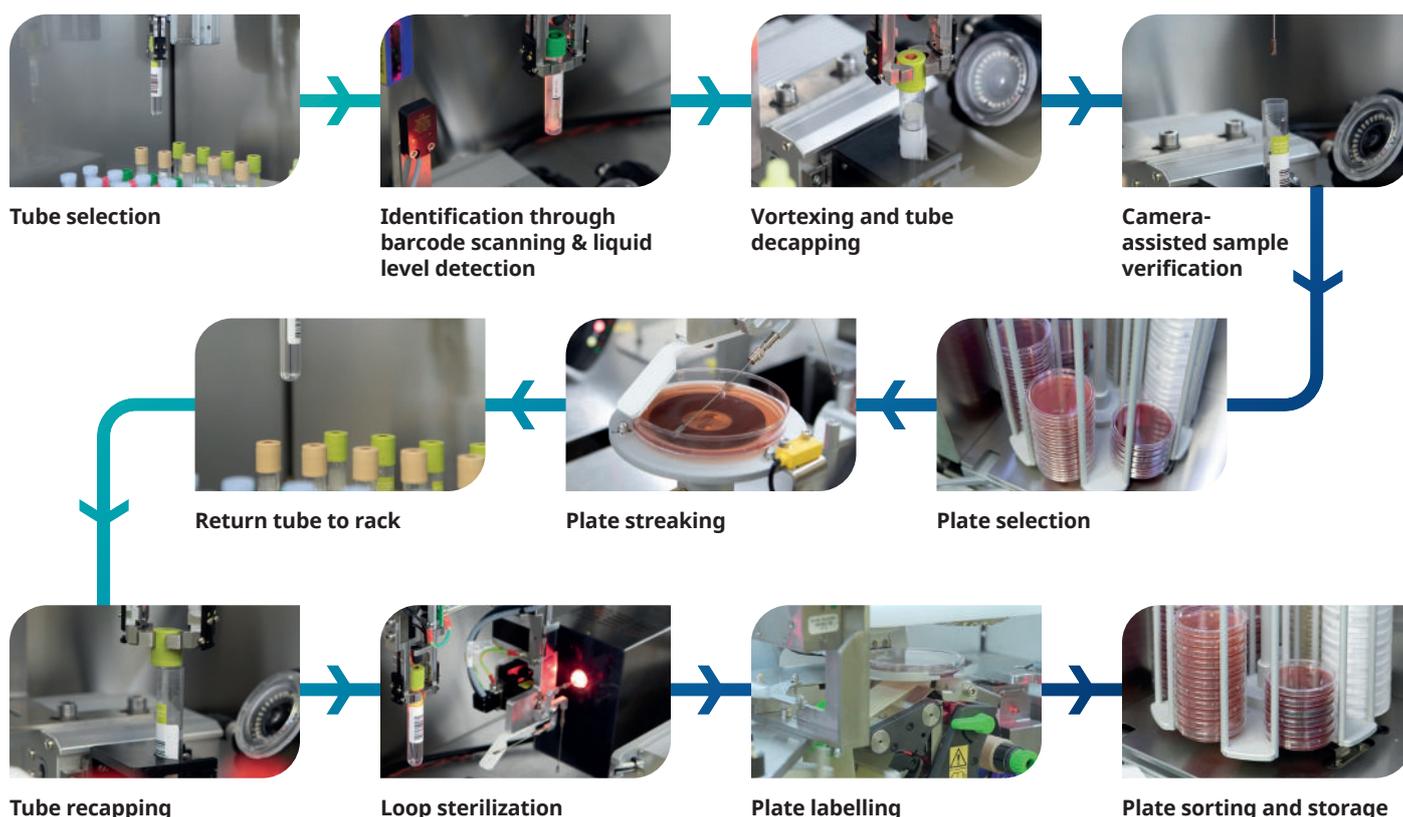
Sener offers two distinct variants of the AUTOPLAK product: **the Complete and the Advanced variant**. Each variant is designed to address the unique needs of different laboratories. Furthermore, both options can be enhanced with a comprehensive selection of optional

accessories, providing the flexibility to customize solutions according to specific laboratory requirements and workflows. This adaptability ensures that laboratories can optimize their processes, improve efficiency, and achieve better results in their operations.

COMPLETE variant:

Our Complete variant offers a robust set of essential features specifically designed to optimize your laboratory operations. This variant encompasses a comprehensive range of critical processes that are necessary for enhancing both efficiency and productivity within the lab environment. By integrating these key functionalities, the Complete variant enables

laboratories to streamline workflows, reduce turnaround times, and ensure consistent quality in their results. With a focus on improving operational effectiveness, this solution serves as a vital tool for laboratories looking to achieve their goals while maintaining high standards of performance and reliability.



Product variants

ADVANCED variant:

The AUTOPLAK Advanced variant includes all the components found in the Complete system, along with several additional features that enhance its functionality. These extra capabilities are

designed to further improve laboratory operations, providing users with greater flexibility and efficiency in their processes, ultimately helping them achieve better results.

Gram slide preparation module



To streak Gram slides and add barcode printing directly to the slides for improved tracking and identification in the laboratory.

Enrichment broth inoculation module



To inoculate enrichment broth while incorporating barcode printing on the tube for better tracking and identification in the laboratory.

Product optionals

Optional modules (sold separately):

Enhance the system's capabilities by integrating our optional modules, which allow for greater scalability and improved functionality. These modules can be

tailored to meet your specific needs, ensuring that your laboratory can adapt and grow with evolving requirements and challenges.

Bi-plate module



To automatically streak and label bi-plates, streamlining the process for enhanced efficiency and accuracy in laboratory workflows.

No caps software module



To use AUTOPLAK with uncapped tubes, facilitating easier access and efficient processing while maintaining the integrity of the samples.

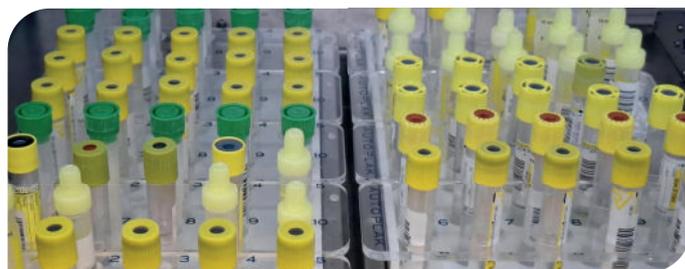
Advanced *features*

Continuous sample loading



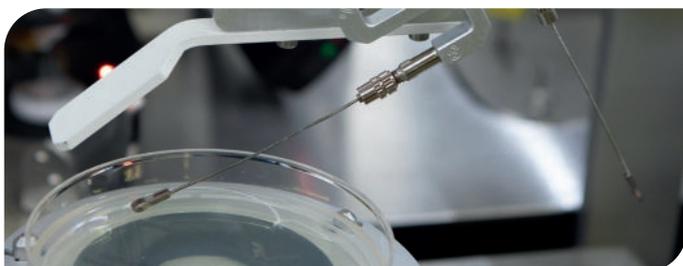
AUTOPLAK features two independent trays, allowing continuous sample loading without interrupting system operation and maintaining optimal workflow efficiency in the laboratory.

Mixed tubes



The system supports loading mixed tube types on the same tray, ensuring flexibility and compatibility with diverse laboratory sample formats.

4-loops design



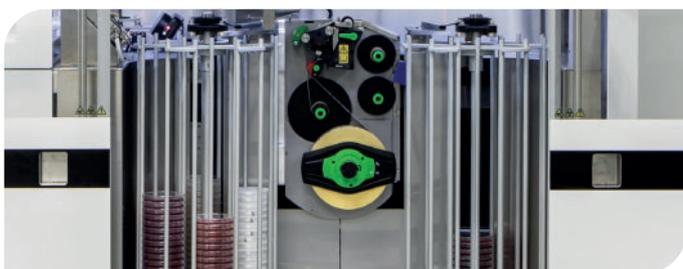
The system's unique 4-loops inoculation mechanism allows for a wide variety of applications and customizable streaking patterns, offering maximum versatility and efficiency in sample processing.

Incineration technology



The system integrates the latest inoculation loop incineration technology, ensuring optimal loop sterilization and consistently high-quality results.

Input and output carousels



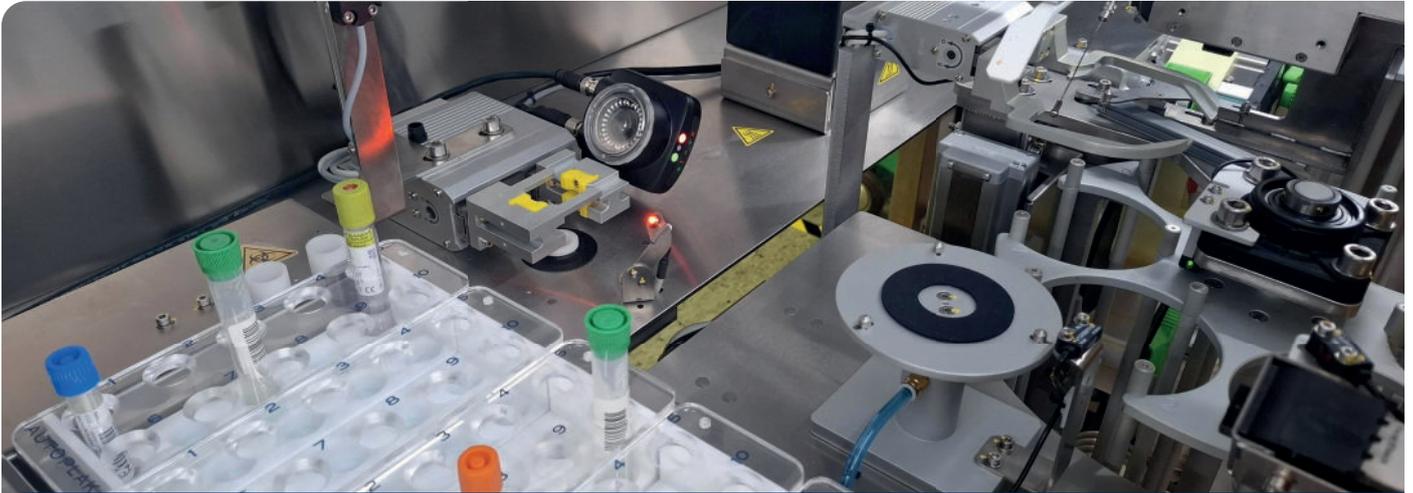
AUTOPLAK features two configurable sample carousels that can serve as either input or output, depending on the laboratory's workflow setup.

Footprint and installation



The system has a compact footprint, allowing it to be conveniently installed against a wall, saving valuable laboratory space.

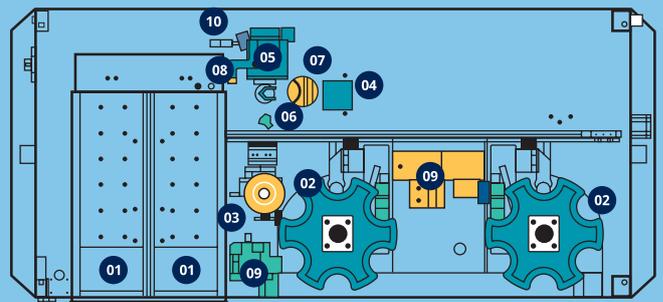
Compact concept



“AUTOPLAK is a great and versatile equipment which really helps us to *increase productivity* and *ensure efficiency and reliability*. It is easy to handle and has an useful interface, which allows our technical team input and set up the required information to process samples, run and analyze the process.”

Physical diagram

01	2 independent drawer doors	To load and unload without interruption sample tubes and the enrichment media tubes on racks
02	2 carousels of 6 silos	Configurable as I/O carousels and accessible through side-opening doors
03	Inoculation table	Where plates are streaked and slides prepared
04	Incinerator	IR heater to sterilize the inoculation loops
05	Vortex/Vortex grippers	To hold and vortex the sample tube for homogenization
06	Drop projector LED	To verify the inoculation loop is filled with sample
07	and camera	
08	Liquid level sensor	To ensure the inoculation loop can correctly pick up the sample by verifying the level is sufficient



09	Plates printer	Printers area for all protocols
10	Barcode reader	To read the barcodes of the selected sample tube for traceability
	HEPA filter	To provide a safe-working environment
	Touch screen monitor	With included software
	UPS	To provide emergency power
	Footprint	Both variants and optionals uses same footprint

General specifications

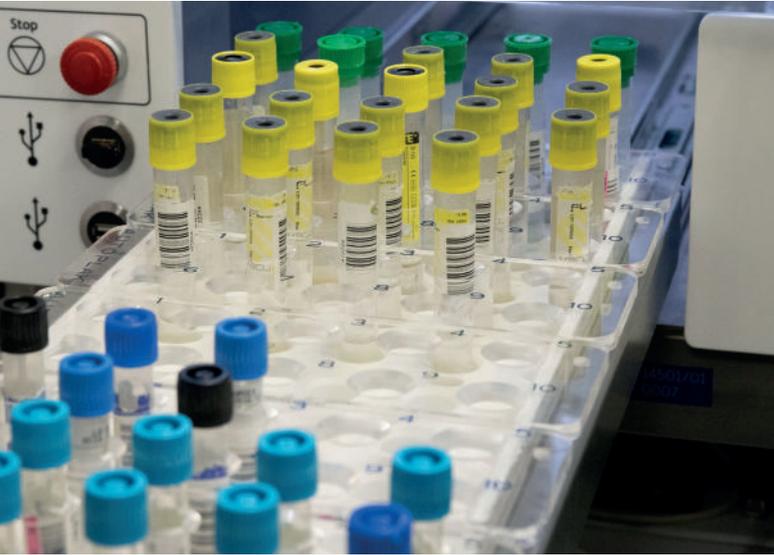
Dimensions	92cm D x 185cm W x 200cm H
Weight	~500 kg
Electrical Power	220–240V Single Phase AC, 1500 W max, 50/60 Hz, 10A for 200–240 VAC operation
IP CEI 60529 degree of protection (For indoor use only)	IP 20
Noise level	LpA <65 dB (A)
Average and peak power	600 VA / 1100 VA
Power plug	Type E+F (CEE 7/7)
Temperature (operating)	10° to 30°C
Temperature (storage)	-10° to 40°C
Relative humidity	40% to 80% (without condensation)
Lamp specification	19.2 W flexible cool white light LED strips (5500 K)
Degree of pollution	II
Maximum operating altitude	1500 m
Installation category	II
Operator interface	17" touch screen monitor with UI
Interface LIS interface	Available upon request
Network	Ethernet 1Gb
Operating system	W10
Capacity of sample tubes	2 independent drawers of 60 tubes each with a total capacity of 120 tubes
Capacity of plates	12 silo carousels for plated media with a capacity of 480 culture plates
Processing capacity (pattern-dependant)	Average rate of 105 plates streaked per hour. Max 120 plates.
Certifications	CE, IVDR, UL, CSA and in compliance with 61010 for laboratory use & IVD medical equipment Standard for Safety for Electrical Equipment for Laboratory Use

Functional specifications

Media plate specifications*	
Base diameter	87 mm <D <88 mm
Cover diameter	(d + 2 mm) <D <(d + 5.5 mm), subject to the following condition: (91 <D <92)
Plate height	14 mm <H <15.2 mm
Cover height	6 mm <H <8 mm
Sample container specifications*	
Material	Plastic
Types	<ul style="list-style-type: none"> • Tubes with screw caps • Tubes with solid pressure cap • Tubes with hollow pressure cap • Vacuum tubes
Lower extremity shapes	<ul style="list-style-type: none"> • Cylindrical tip with a diameter of <13 mm • Hemispherical tip • Conical tip with a diameter >15mm and the length of the cone is <12 mm
Tube dimensions	<ul style="list-style-type: none"> • Height (including cap) must be between 82 mm and 125 mm • Diameter must be between 12.50 mm and 15.75 mm with the following restrictions: <ul style="list-style-type: none"> - If the height is >100 mm, the diameter must be >14.00 mm - If the height is >110 mm, the diameter must be >15.50 mm
Barcode	
Default barcode	Code 128
Standard barcodes accepted for sample tube	EAN/UPC, Code 39, Code 32, Code 128, GS1-1 28, ISBT 128, Interleaved and Standard 2 of 5, Codabar, ABC Codabar, GS1, Databar (Omnidirectional, limited, Expanded), Code 93, Code 11 and MSI The barcode printed on plates is Code 128
Lifetime	Designed and serviced to ensure a 10-year lifespan

* Ask for the complete list of validated media and tubes

A disruptive *compact concept*





Expand AUTOPLAK into our *complete solution*, Ai5 Lab

Discover how to enhance
microbiology lab workflows:





**It's not just about automation;
it's about *adding value* through automation.**