interscience

easySpiral®

The world's fastest Spiral plater

UK

interscience

Our quality for your lab

- Designer and manufacturer for microbiology
- Full range of lab equipment and consumables
- R&D leadership for reliable and innovative products
- Information, technical advice and support 24/7
- Made in France

interscience
R&D center & manufacturing site
Mourjou FRANCE

F. Jalenques & Dr. Ed Campbell

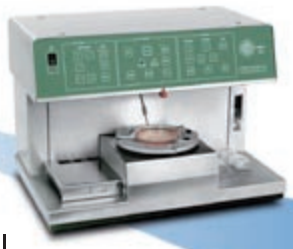
Spiral®: 30 years of experience

The Spiral® method was designed in 1973 to automate the routine work of bacterial enumeration by Dr. Ed Campbell, researcher at the FDA. With François Jalenques, friend and founder of interscience, they patented an updated method in 1992.

Since then Spiral® automatic platers have been a reference for applications in food microbiology, medical bacteriology, research on food preservatives or cosmetological factors in compliance with the AFNOR V08-100 standards.

Today interscience is proud to launch the 3rd generation of Spiral® platers with easy**Spiral**® and easy**Spiral**® **Pro**.

1977
Spiral® DS, first accelerated bacterial plater



1996
Spiral® DS+, automatic bacterial enumeration

2010
easy**Spiral®**, 3rd generation of Spiral® plater worldwide release

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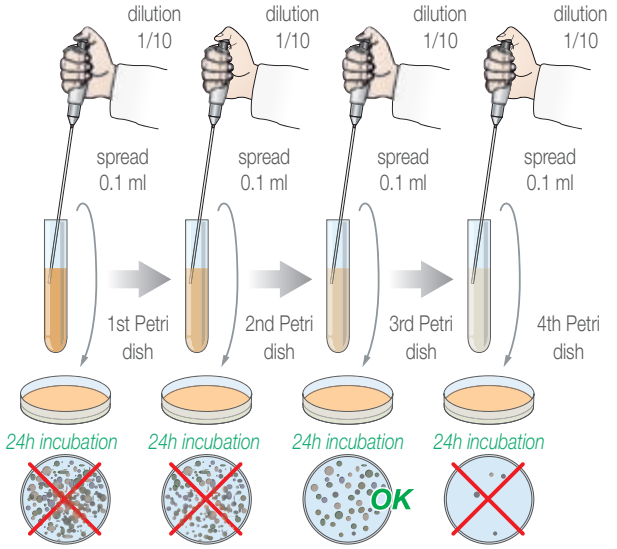
Why Spiral® method?

With **easySpiral®** automatic plater, increase your lab capacities with standardized bacterial plating of 30 to 10 million countable CFU/ml on **one single Petri dish** without prior dilution.

Manual plating method

This method requires repetitive actions: at least **four dilutions** and **four successive platings** are necessary to obtain one good and readable Petri dish.



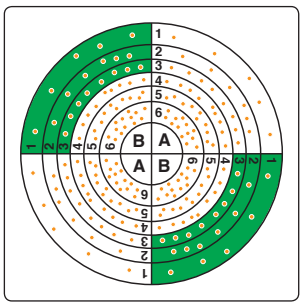
Automatic Spiral® method

With this method, make your analyses on **1 single Petri dish!**

- *From 30 to 10 million CFU/ml on 1 single Petri dish*
- *Up to 75% less consumables*
- *Full plating cycle in 25 seconds!*

How to count

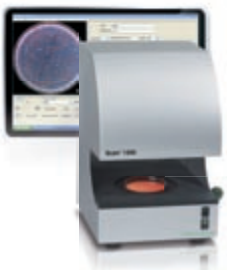
The **Spiral®** method allows fast bacterial enumeration while avoiding intermediary dilutions. A **logarithmically decreasing volume** of sample is dispensed on the surface of a rotating Petri dish in an **Archimedes spiral**. The volume is calibrated and known at every point of the Petri dish. Bacterial concentration is determined by dividing the number of colonies found by the volume dispensed in the same sector of the dish.



Count the colonies in the first A or B outer segment and **reach a minimum of 20 colonies.** Repeat the same operation on the opposite side of the Petri dish. Counting can be done manually with a special counting grid or with an automatic colony counter such as interscience's **Scan®**.

Manual counting with the **counting grid**

Manual counting with **Scan® 100**



Automatic counting with **Scan® 1200** **(see page 7)**

easy**Spiral®**: revolutionary efficiency

The new **easySpiral®** technology, developed exclusively by interscience, allows the automatic plating of your sample on a Petri dish in just 25 seconds with a decreasing concentration (sensitivity: from 30 to 1.10^7 CFU/ml) .

A completely new architecture, with a **revolutionary rotating arm**, allows a **full cycle in 25 seconds** (disinfection, sample-taking and plating). All the liquid flows are visible. No exterior maintenance is needed.

easySpiral® is equipped with an innovative unique stylus cleaning device, which guarantees a perfect cleaning and disinfection of the stylus, with **no risk of cross-contamination**.

Autoclavable bottles
Secured and easy connection by CPC Connectors

2 liter bottles
600 cleaning cycles

Auto disinfection
The exterior and interior of the stylus are cleaned by overflow for no cross-contamination

Sampling area
Fast and accurate filling in a sterile DB50 beaker

Stainless steel housing
Compact, 38cm width

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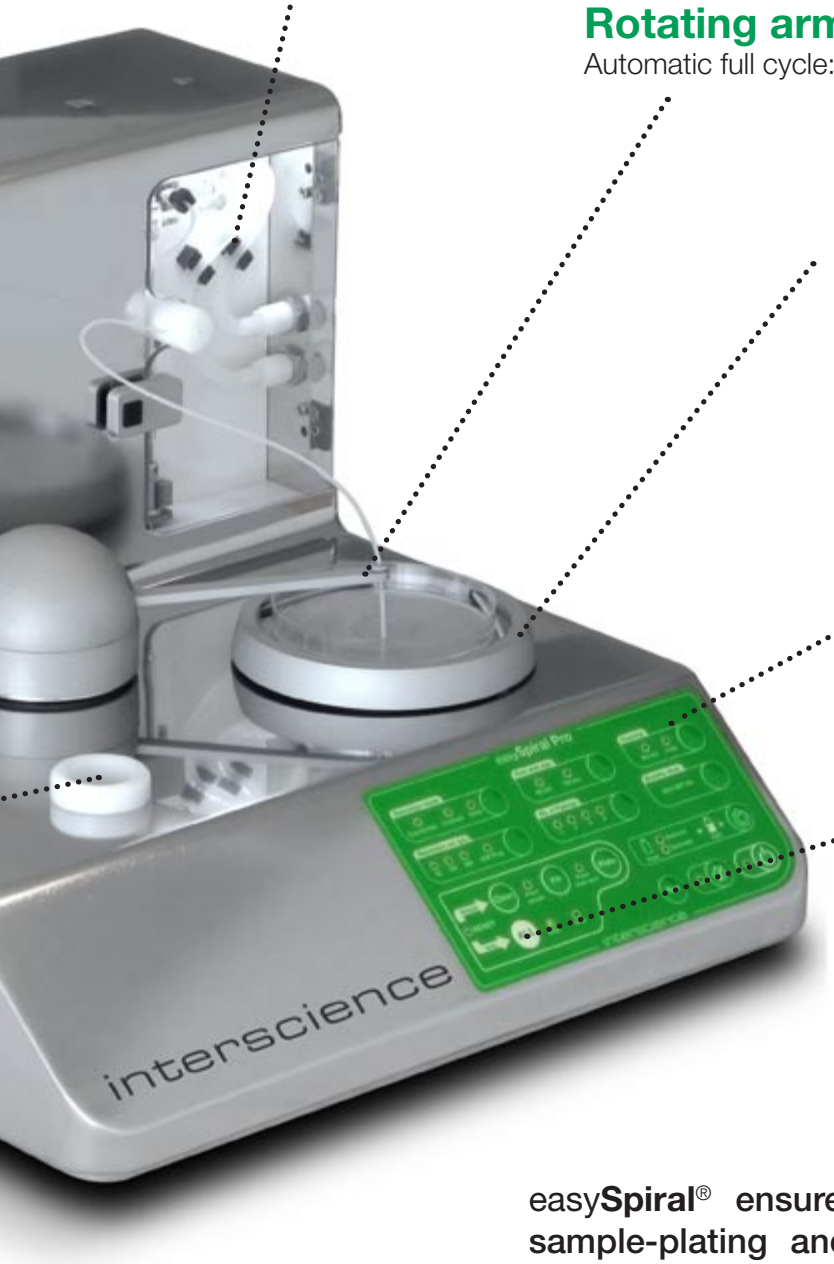
AFNOR
V08-100

Cleaning liquid sensor
Alarm when bottle is empty

Rotating arm architecture
Automatic full cycle: 25 seconds

Modular Petri dish stand
Switch from 90 to 150 mm Petri dishes



Intuitive control panel
Easy to use
Works under laminar flow

1 button for a full cycle
No training needed

easy**Spiral**® ensures repeatability and reproducibility of sample-plating and increased reliability of analyses by harmonizing the work of the whole lab team.

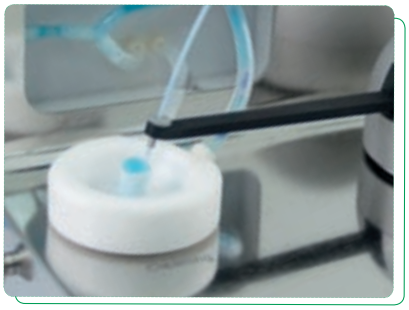
easy**Spiral®** technology

PATENTED

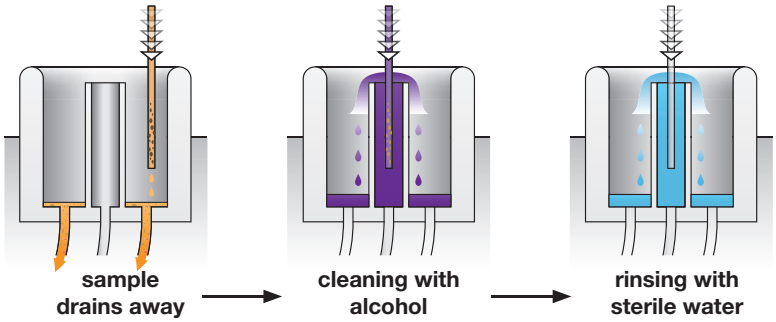
Delivering the fastest cycle time ever, **easySpiral®** has an impressive rotating arm architecture, new patented disinfection system avoiding risks of cross-contamination and full traceability of the operations with a sensitivity from 30 to 10 million CFU/ml on **one single Petri dish**.

The fastest Spiral plater: only 25 seconds for a full cycle!

- 25 seconds for a full cycle (disinfection, sample-taking and plating)
- Rotating arm with high speed movements
- Patented electronic robot system
- Security: repeatability and reproducibility



No cross-contamination*



- Unique patented disinfection system by overflow
- No more use of consumables
- 600 cleanings without changing bottles

USB programmable volume & traceability**

- Easy PC connectivity
- From 10 to 1000 microliters programmable volumes
- Deposition mode programmable
- Monitoring software with traceability

Excel™ **USB** connection

Consumables reduced up to 75%!

- Reduced budget for consumables
- No specific consumables needed
- More space in your laboratory

* Scientific study available on request ** easy**Spiral® Pro** only

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Plate & Count® system

the best combination
*for the **best results!***

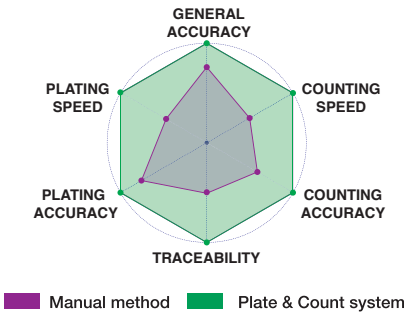
The **Plate and Count®** system, entirely developed by the interscience R&D department, offers the best spiral plating and automatic colony counting. It includes:

- easy**Spiral®:** automatic bacterial plater
- **Scan® 500** & **Scan® 1200:** automatic colony counters

- **Scan® 500** & **Scan® 1200** are designed to count **Spiral®** plated Petri dishes

- Total compatibility between **Spiral®** and **Scan®**
- Complete bacterial results and reporting
- Full traceability

DOWNLOAD
www.interscience.fr



With **Plate and Count®** system, you will improve your:

- Plating speed & accuracy
- Counting speed & accuracy
- Traceability
- Analysis capacity

Technical specifications

	easy**Spiral®**	easy**Spiral® Pro**
Reference	412 000	413 000
Syringe capacity	1000 µl	1000 µl
Preset Volume dispensed	50 or 100 µl	50, 100 or 200 µl
Counting range	300 to 1.3 x 10^5 CFU/ml	30 to 1 x 10^7 CFU/ml
Full cycle time	25 seconds	25 seconds
Cleaning autonomy	600 cycles (2l bottles)	600 cycles (2l bottles)
90 mm Petri dish	✓	✓
150 mm Petri dish	-	✓
USB programmable volume	-	from 10 to 1000 µl
Exponential deposition mode	✓	✓
Circle deposition mode	✓	✓
Uniform deposition mode	-	✓
Excel™ export traceability	-	✓
Dimensions	38 x 41 x 29 cm	38 x 41 x 29 cm
Weight	15.3 Kg	15.3 Kg
Power supply	90V to 240V 50Hz to 60Hz	90V to 240V 50Hz to 60Hz

APPLICATIONS

- **Microbiological tests**
- **Food control**
- **Bacterial cinetics**
- **MIC control of antibiotics**
- **Challenge test: cosmetics control**
- **Pharmaceutical control**

Delivered with: 1000 sterile beakers, 1 blue dye for tests, 1 detergent liquid, 3 sets of GL45 autoclavable bottle connectors, spiral counting grids: 90 mm & 150 mm*, test container stand, power cord, user's manual, 150 mm Petri dish ring*, monitoring CD-ROM software*, USB cable*.
*easy**Spiral® Pro**

Accessories

Housing protection
for working outside laminar flow
ref: 413 001

Beakers DB 50
sterile beakers
ref: 415 100

Barcode reader
barcode reader
ref: 522 000

Bottle set connection GL 45
for GL 45 bottles
ref: 413 003

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