

SERIAL  
F!LLER



**SINGER  
INSTRUMENTS**

A RESPONSIBILITY TO SCIENCE!



SERIAL<sup>TM</sup>  
F!LLER

*Agar Plate Pouring*



EASY  
VERSATILE  
COMPACT

Waste is depressing—because your experiments are valuable, your time is valuable and your reagents are valuable. Never discard a badly poured plate ever again and optimise on repeatability, sterility and bench space.

## INTRODUCTION



### WHAT IS IT?

The Serial Filler is a compact, easy-to-use automated media-dispenser that pours perfectly level, bubble-free Petri or SBS plates at consistent volumes. Equipped with a UV lamp and multiple HEPA cabinet and venting filters, the Serial Filler produces superior quality agar plates of consistent volume in a sterile enclosure, which greatly reduces any threat of contamination.

### WHAT DOES IT DO?

With the touch of a button on our signature user-friendly interface, the Serial Filler automatically dispenses biological growth media onto Petri dishes and plates. The quick-change Media Dispensing Kits enable easy set-up between runs for labs that use multiple media formulations.

### WHAT CAN I USE IT FOR?

- Pour agar plates of most standard size and shape.
- Dispense media with high precision.
- Free up time for other important lab duties.
- Pour up to 50 plates in 6 minutes.







ACCEPTS A RANGE OF PETRI  
DISHES & SBS FORMAT PLATES



#### WHAT PLATES CAN I USE?

The Serial Filler accepts standard Petri dishes: 90mm, 150mm & 120mm-square. The Serial Filler also accepts SBS-format rectangular plates (which includes Singer PlusPlates).

For a full list of supported plates please visit:  
[singerinstruments.com/serial-filler-supported-plate-types/](https://singerinstruments.com/serial-filler-supported-plate-types/)

SEE SUPPORTED PLATES

#### HOW DOES IT WORK?

Using advanced Graboid™ technology, the Serial Filler automatically recognises the type of plate with zero user-input. It pours perfectly level, bubble-free agar by adjusting the pouring speed and volume according to plate sizes and shapes. An audible signal alerts you when your agar plates are ready.

#### ADVANTAGES OVER HAND- POURING

- **REDUCE WASTE** - Your experiments are valuable, your time is valuable and your reagents are valuable. Never discard a badly poured plate ever again.
- **MORE STERILE** - The anti-contamination design means plates are enclosed while lids are removed, with positive and filtered air pressure, as well as a built-in UV lamp.
- **MORE CONSISTENT AGAR VOLUME** - With a volumetric accuracy of ~3%, Each plate type has a default volume with the option to set your own pouring volume/speed for each experiment. Plate types are automatically recognised so there's no extra procedure for changing plate types.
- **SMALLER FOOTPRINT** - The Serial Filler has a much smaller footprint than a bench full of plates.
- **LESS TIME CONSUMING** - Push start and walk away. You don't need a dedicated technician to be present for the duration of the cycle; time is freed up for other important duties such as producing media for the next batch.
- **NO BUBBLES** - The Serial Filler disperses bubble-free agar every time.
- **FLAT AGAR** - Perfectly flat agar; optimise high-throughput screening at densities of 1536 and above.



REDUCE WASTE



BUILT-IN UV  
LAMP FOR ANTI-  
CONTAMINATION



CONSISTENT AGAR  
VOLUME. FLAT LEVEL  
& BUBBLE-FREE



SMALL  
FOOTPRINT



POURS UP TO  
50 PLATES IN  
6 MINUTES



ACCEPTS  
SINGER  
PLUSPLATES



USER FRIENDLY  
TOUCH-SCREEN



AUTOCLAVABLE  
POURING  
TUBES



ACCEPTS  
RANGE OF  
PLATES

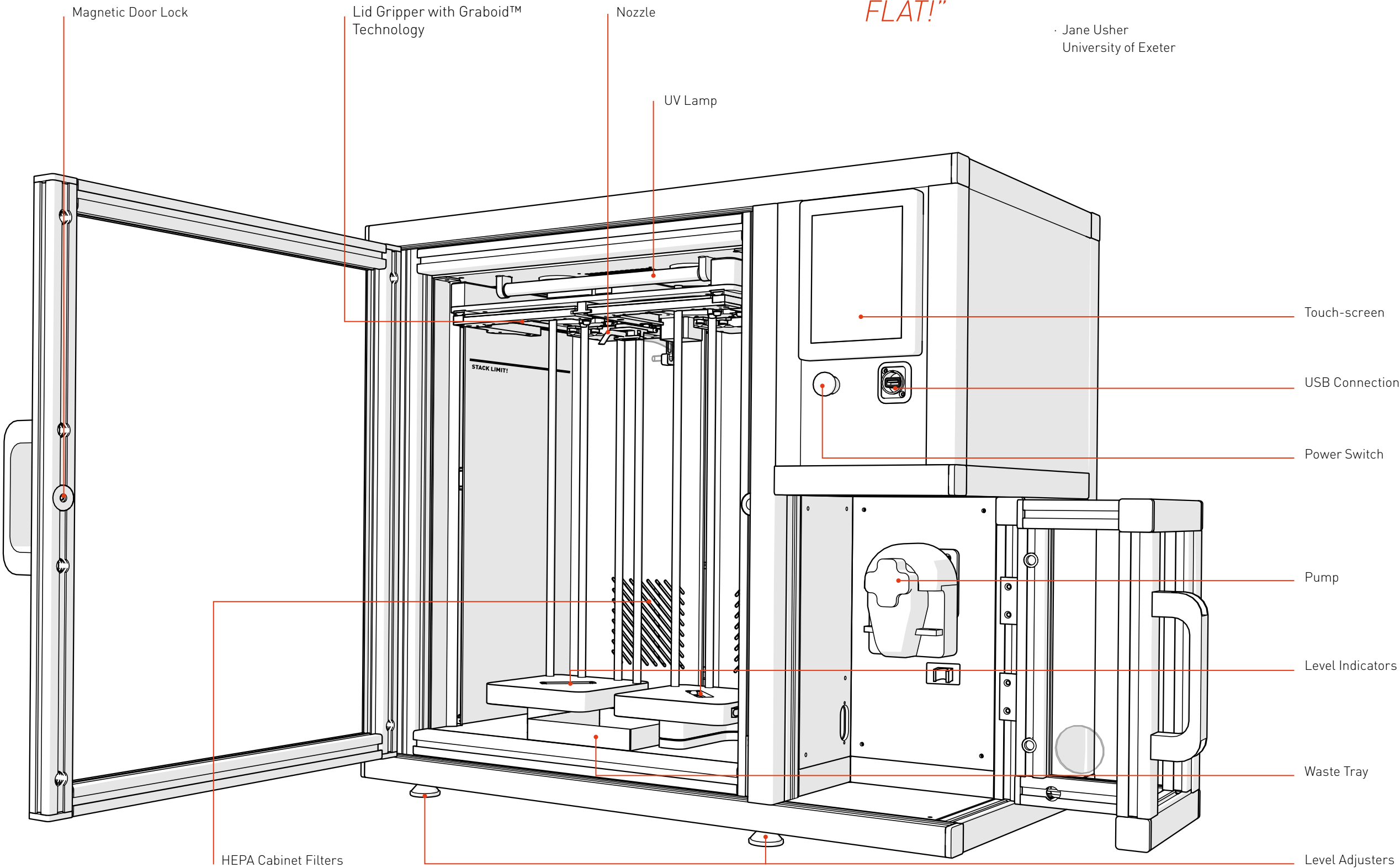


FREES UP TIME  
FOR REAL  
SCIENCE!

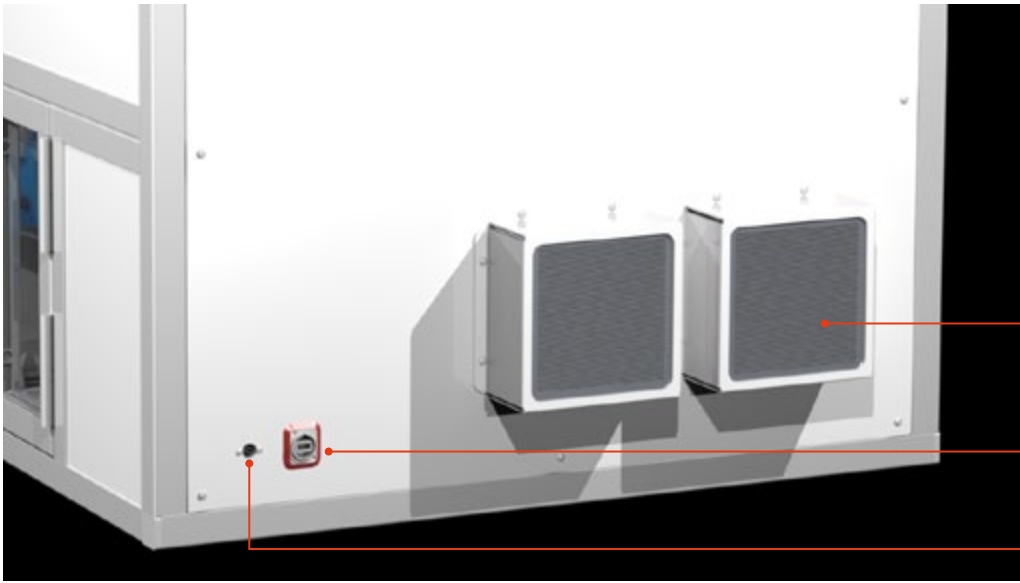


*"IT SAVES ME TONS OF  
TIME AND THE PLATES  
ARE ALWAYS PERFECTLY  
FLAT!"*

Jane Usher  
University of Exeter



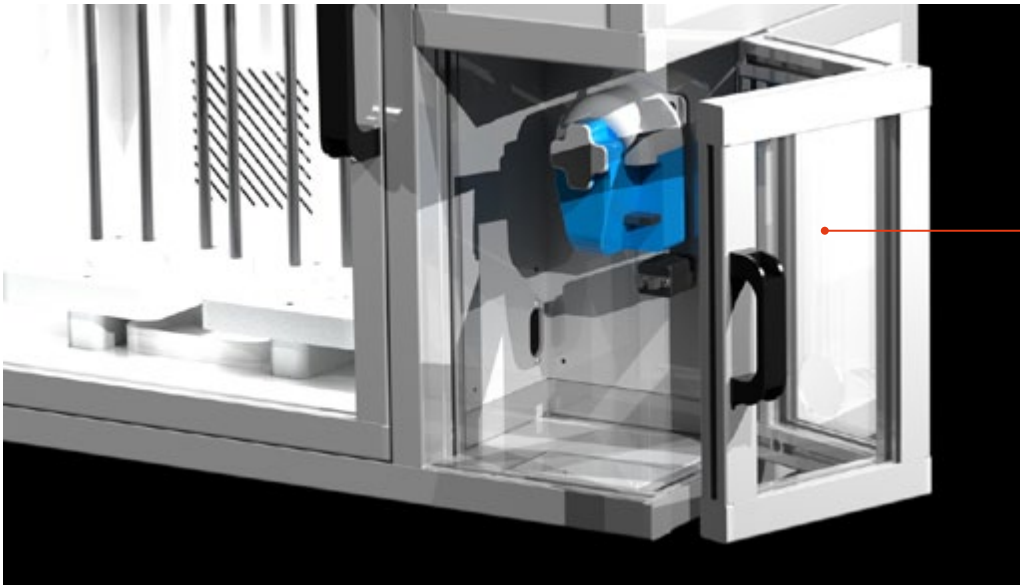




HEPA cabinet filters

Network connection

Power connection



Pump compartment access

NEVER DISCARD A BADLY  
POURED PLATE EVER  
AGAIN

TECHNICAL SPECIFICATIONS

STANDARD SET-UP

**MODEL:**  
Serial Filler

**PRODUCT CODE:**  
SFI-001

**TECHNICAL SPECS:**

**Footprint:**

- W: 80cm x L: 45cm
- H: 75cm
- Weight: 40kg
- Power Input: 100- 240V ~1.8A 50/60 Hz
- Power Output: 24V DC

Everything you need to start pouring is included:

- 1x Serial Filler
- 1x 2 Litre Erlenmeyer Flask
- 1x Silicone Umbilical and Nozzle
- 1x Air Filter
- 2x HEPA Cabinet Filter
- 1x Bung and Pipework
- 1x HEPA Venting Filter

**POURING SPECS**

- Plate/dish types: ANSI/SBS rectangular  
Square 100/120mm  
Petri 90/100mm & 150mm
- Maximum plate stack height: 41.5cm
- Maximum batch capacity: ~50 plates
- Speed: Up to 50 plates in 6 mins (SBS plates)
- Optimum agar temperature: 55-65°C
- Volumetric accuracy: ~3%
- Maximum flow rate: 480 ml/m
- Volume adjustment increments: 1ml

**UV LAMP**

- 8w germicidal ultra violet lamp

**HEPA FILTERS**

- Class: H13
- Filters global efficiency % for MPPS particles: ≥99.95%
- Local Efficiency for MPPS particles: 99.75%
- Individually checked

All information is correct at the time of printing. Some revisions may be made as specifications are improved.

OPTIONAL EXTRAS

**MEDIA DISPENSING KIT**  
MDK-001

Increase workflow and convenience while the other components are being sterilised. Kit includes:

- Extra bung
- Pipework
- Air filter
- 1.9m silicone umbilical
- Dispensing nozzle

**2 LITRE ERLENMEYER FLASK**  
FLA-002

**HEPA VENTING FILTERS (PACK OF 5)**  
HVF-001

**HEPA CABINET FILTERS (PACK OF 2)**  
HCF-001

**SILICONE UMBILICAL (PACK OF 5)**  
SLU-001

**DRIP TRAY**  
DRT-001

**UV LAMP**  
SFI-UV-001

**10L WATER BATH (240V)**  
WBA-001

**28L WATER BATH (240V)**  
WBA-002

**10L WATER BATH (110V)**  
WBA-003

**28L WATER BATH (110V)**  
WBA-004

**LEAD RING (VINYL-COATED)**  
VLR-001

**1 YEAR EXTENDED WARRANTY**  
SFI-110

**3 YEAR EXTENDED WARRANTY**  
SFI-130

BOOK A DEMO

GET A QUOTE





## ABOUT US

For over eighty years, Singer Instruments have been designing and manufacturing cutting-edge scientific research equipment.

No one understands the needs of yeast researchers and yeast micromanipulation better than Singers. From the development of ready-made needles, the automatic MSM 400, the MicroZapper spore agitator and purpose-made XLWD objectives, to the ROTOR

HDA personal omics robot, no one has done more to make the yeast model accessible to all. From its headquarters in the beautiful Exmoor National Park in Somerset, UK, Singer ships micromanipulation systems and associated products internationally.

World-leaders in instrumentation for yeast, Singer Instruments are working hard to make continual improvements to help assist the scientific community.



# THE COMPLETE HIGH-THROUGHPUT SCREENING SOLUTION

**SERIAL  
FILLER**

*Agar Plate Pouring*

**ROTOR**  
H D A

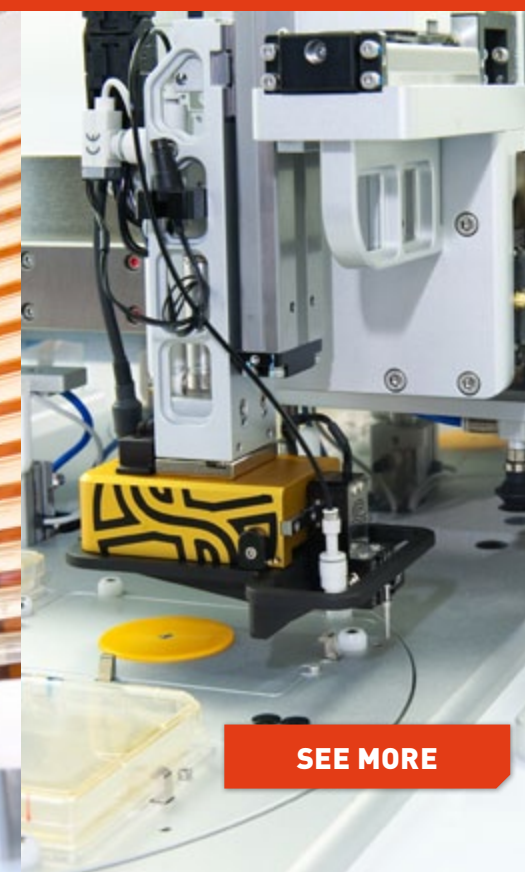
*Colony Manipulation*

**PHENOBOTH**

*Colony Imaging with Analysis  
from PHENSUITE*



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# SINGER INSTRUMENTS

A RESPONSIBILITY TO SCIENCE!

Roadwater,  
Watchet,  
Somerset.  
TA23 0RE

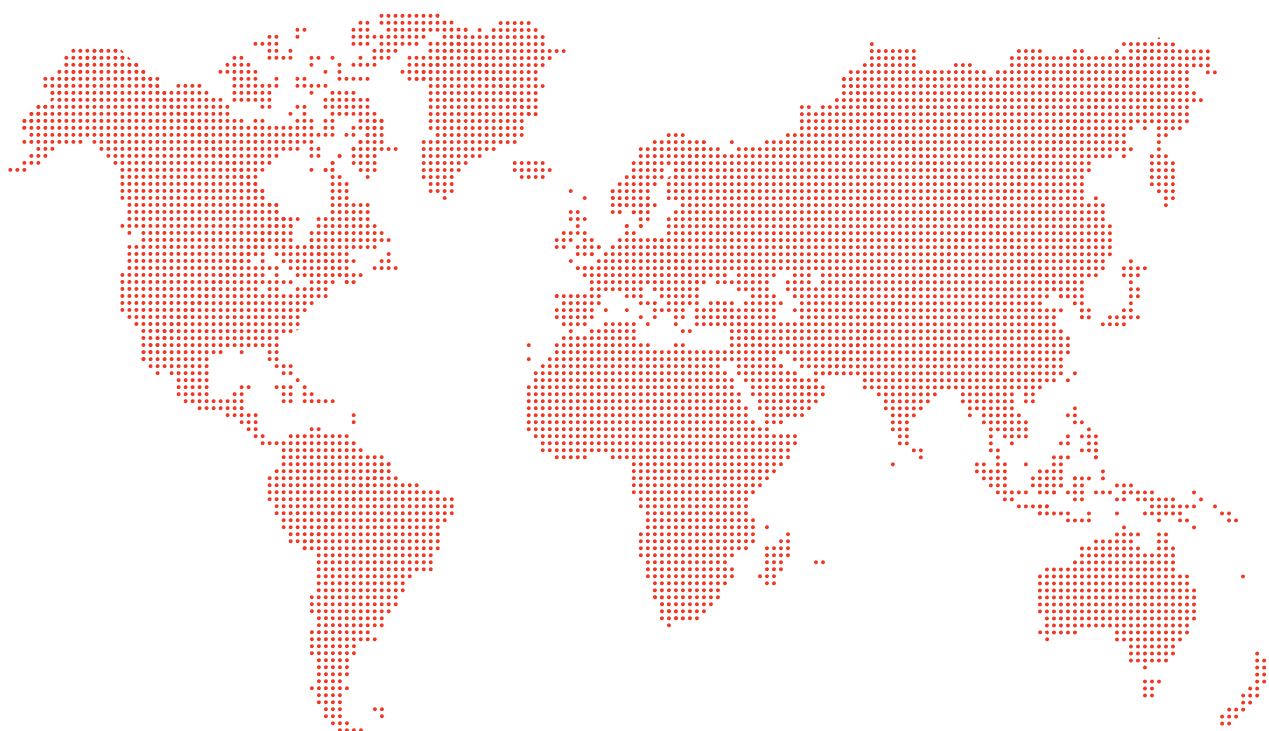
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