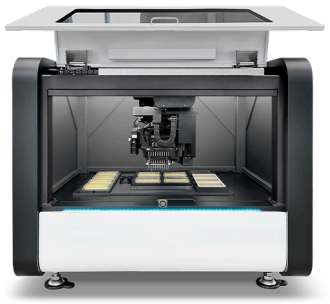
Automated colony picker with individually controlled pins

Image-guided microbial colony selection and transfer, with independent motorised pin actuation and laser-based pin calibration.

Colony picking



Features

- Independent motorised control of a 96-pin head adjusts picking to colony position.
- Laser calibration aligns the picking pins before transfer.
- Select colonies by size, shape, proximity, colour or optional fluorescence.
- Supports picking, plate replication and re-arraying workflows.

Technical specifications

Throughput	Up to 4,000 colonies/hour; protocol-dependent
Picking head	96 independently motorised pins; interchangeable heads
Picking accuracy	Above 99% under the specified test conditions
Pin material	Interchangeable stainless steel
Pin cleaning	Three static wash baths and halogen drying
Source capacity	Up to five 90 mm plates
Source formats	90/100/150 mm dishes, 128 × 86 mm trays, 125/245 mm square dishes
Destination capacity	Picking: four plates; replication/re-arraying: up to eight plates
Destination formats	96/384-well shallow or deep plates; PCR plates
Imaging resolution	100 pixels/mm
Detectable colony size	Down to 200 µm in the published configuration
Field of view	54.75 × 36.52 mm
Illumination	Transmitted illumination and darkfield; optional blue, green, red or custom fluorescence
Cleanliness	UV germicidal illumination; optional HEPA filtration
Dimensions (W × D × H)	1200 × 784 × 910 mm
Power input	220-230 V AC, 50/60 Hz

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Applications

- Microbial colony screening and clone selection.
- Synthetic-biology workflows, replication and re-arraying of culture plates.

Configurations and accessories

- Choose source and destination plate formats, picking pins and cleaning protocol.
- Specify fluorescence channels, HEPA filtration and automation interfaces where required.

Selection notes

- Throughput and picking accuracy depend on colony morphology, plate format, cleaning protocol and selection settings.

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https://www.precisometer.com/microscopy/life-science-instruments/colony-picking/automated-colony-picker