



Automated High-Throughput Screening by Cytometry with Integrated Plate Handling

Sartorius iQue® 5 HTS Cytometer with Hudson's SciClops™ Plate-Handling Platform

High-throughput cytometry workflows demand continuous, reliable sample presentation to maximize instrument utilization. Manual plate loading and exchange introduce variability, limit walk-away time, and constrain throughput—especially in large screening campaigns.



Why Automate iQue® 5 Workflows?

- Uninterrupted screening at scale
- Reproducible, high-quality data
- Sample-to-signal consistency
- Hands-off plate handling
- Off-deck storage and incubation
- Easy flexible scheduling

Unlock More from High-Throughput Screening by Cytometry

Configure Automated Cytometry Solutions According to Goals, Complexity and Available Space

Compact Configuration

SciClops™ + iQue® 5

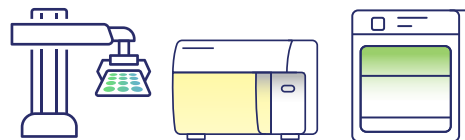
- Automated plate loading directly into the iQue® 5
- Supports continuous single-instrument operation
- Ideal for labs transitioning from manual to automated workflows



Extended Configuration

SciClops™ + iQue® 5 + Incubation

- Removes plate directly from an incubator
- Supports longer unattended runs
- Enables more precise temperature control



Full Workcell Configuration

SciClops™ + iQue® 5 + Incubation + Upstream Sample Preparation

- True hands-free operation
- End-to-end workflow automation, from sample prep through analysis
- Maximum walk-away time with minimal manual steps





Workflow Integration

The automated system removes handling bottlenecks across antibody discovery, functional profiling, and cell-based screening workflows.

Plate-based execution enables:

- Large-scale library screening with consistent timing
- Standardized datasets suitable for computational analysis and AI-driven discovery
- Seamless integration with upstream and downstream workflow steps

Automation transforms iQue® 5 into a true walk-away screening platform.

	Automation Robotics	Cytometry Platform	Automated Plate Loading Enablement	Sample Prep
iQue5 Automation	Sciclops™	iQue®5	Single-Instrument	Manual
Unattended Run			Single Instrument and Incubation	Manual
End-to-End Workflow Automation			Multiple Instruments and Incubation	Automated

Scalable Automation from Hudson Lab Automation — Ready to Go

SciClops™ Plate Handler



Reliable plate loading to Sartorius iQue® 5 systems

Configurable capacity (single-stack to multi-stack configurations)

Suitable for benchtops, hoods, and biosafety cabinets

Designed for robust, repeatable operation in demanding lab environments

SoftLinx™ Workflow Software



Intelligent orchestration of the full automated workflow

Seamless integration with iQue® Forecyt® software

Supports coordination with incubation, storage, and downstream steps

Enables flexible scheduling and unattended operation

Applications Enabled by Automated iQue® 5 Workflows

Antibody Discovery & Development

High-throughput screening, functional profiling, and cell line development

Adoptive Cell Therapy

Immune cell characterization, cytokine profiling, and killing assays

Small Molecule & Phenotypic Screening

Immune biology screening, CRISPR/siRNA workflows, yeast and bacterial assays

Emerging Modalities

Advanced cell-based assays requiring speed, consistency, and scale



The Sartorius iQue® 5 combined with Hudson's SciClops™ automation platform — helping laboratories increase productivity, improve data consistency, and reduce hands-on time without sacrificing flexibility.

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