

**Thermo Scientific
Catalyst Express
Laboratory Workstation**



**A highly reliable microplate
handling solution for around-the-clock,
walk-away operation.**

The Thermo Scientific CataLyst Express is ideal for labs desiring a highly capable, low-risk introduction to automation — or for automated labs requiring smaller yet high-throughput islands of automation.



Thermo Scientific CataLyst Express Laboratory Workstation

High Throughput, Extreme Flexibility in One Compact Automation Platform

The Thermo Scientific CataLyst Express packages the benefits of our robotics and integration expertise in a compact, highly reliable microplate loading system. Its error-free technology offers laboratories the confidence to maximize walk-away time and assay throughput.

The system easily automates virtually any application, including the loading and unloading of complex instruments. With speeds up to three times faster than competing plate movers, the CataLyst Express gives you:

- Greater walk-away time with extensive storage options
- Lower maintenance costs with minimal service
- Higher asset utilization
- Faster time to results

The CataLyst Express is the ideal platform to alleviate big-system bottlenecks and increase productivity.

Automate Virtually Any Application

A ready-to-use solution, the CataLyst Express easily automates benchtop assays. A single workstation can perform multiple assays simultaneously. Now, researchers can rapidly set up and run virtually any application, including:

- Genomics
 - DNA purification
 - Gene expression
 - Sequencing reaction setup
- Proteomics
 - Protein purification
 - Protein crystallography
 - Protein digestion/MALDI sample preparation
- High-content/cell-based screening
- Primary and secondary screening
- ADME/Tox
- ELISA

- Sample preparation/solid-phase extraction
- Barcode print and apply

Proven Industrial-Strength Robotics

The CataLyst Express incorporates industrial robotic technology packaged specifically for microplate moving applications. Its dexterous articulated robot provides 5 degrees of freedom, allowing for highly accurate positioning and plate placement. The system's 360-degree base rotation covers a maximum work area and allows very flexible instrument placement.

Rugged and reliable, the robotics will perform repetitive tasks over long hours without effort. With little downtime due to an MTBF of over 50,000 hours, the system lets laboratories benefit from maximum asset availability and very low maintenance costs.

"This is a remarkable system that provides a timely solution to our problem of efficiently screening a small set of compounds against many assays. The multiple Thermo Scientific Multidrop units with integrated six-port valves, large plate capacity, and ability to nest assays allow us to run multiple quenched assays simultaneously with full walk-away capability. The robot and software perform flawlessly. Based upon these results, we have decided to push forward with additional purchases." — Major pharmaceutical company



Thermo Scientific POLARA® Software

Our proven POLARA scheduling software controls all system components and instruments to handle a broad range of applications. POLARA automates multiple applications and schedules them simultaneously for high-throughput processing. It supports overlapping operations to maximize component usage and minimize wait times. The attractive Thermo Scientific EasyTeach user interface makes setup and configuration effortless by showing the robot's path to the system's instruments. In addition, POLARA features robust error handling, run recovery, and batch extension that allow users to continuously run the system. No other lab automation software packs so much productivity, flexibility, and simplicity into one powerful package.

Endless Upgrades & Storage

Your research needs will never outgrow the Thermo Scientific CatalySt Express. The system is designed for virtually unlimited upgrade options and an extensive offering of peripherals. From adding a few instruments to transforming your lab into an ultra-high-throughput system, the CatalySt Express will grow with your needs.

The CatalySt Express comes with plate fingers and three microplate hotels that are configurable to best suit your application. The highly flexible system can be easily expanded to accommodate up to 760 stacked plates or 285 random-access plates by using the Thermo Scientific microplate carousel. Even with the above-mentioned storage, the CatalySt Express still has 180 degrees of workspace available to access several other instruments.

Expert Integration

Our applications support team helps transform your research ideas into reliable, effective automation solutions. Our scientists have managed laboratories and know how to solve the complex problems you face. Their expertise in biology, chemistry, and assay development creates the systems and processes that best meet your most demanding needs.

Our team identifies your research requirements, checks your specifications for accuracy, conducts throughput analysis, and designs the system layout to ensure the automation platform is optimized for your applications. With the experience of countless system integrations, our applications support group can provide counsel on third-party equipment, suggest the best instruments/peripherals, facilitate future upgrades, and expedite integration with upstream and downstream data.



Thermo Scientific Services

We are committed to helping your laboratory achieve success. Our solutions ensure that your automation systems are optimized for accuracy, productivity, and performance. We offer flexible solutions:

- **Service agreements**
- **Preventative maintenance plans**
- **Software upgrades**
- **Software application support**
- **Technical support**
- **Integration services**
- **Relocation services**
- **Training**

Contact a Thermo Fisher Scientific representative to tailor the service solution that best meets your needs.

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