

## The Benefits of Automating Liquid Handling in the Lab



If you work in a lab, you know that liquid handling is a crucial part of many experiments and processes. And if you're looking for ways to increase efficiency and reproducibility in your lab, [automated liquid handlers](#) may be the answer. Here are just a few of the benefits of using **automated liquid handlers** in your lab.

### What Liquid Handlers Do

First, let's quickly review what **liquid handlers** do. These devices are used to move and dispense liquids, and they can be programmed to carry out complex protocols with great precision. **Liquid handling instruments** can be used for a variety of tasks, including:

- Dispensing of reagents
- Diluting samples
- Mixing solutions
- Transferring liquids from one container to another
- Performing serial dilutions
- Hit-picking specific samples

## Why Automate Liquid Handling?

There are several reasons why you might want to automate **liquid handling instruments** in your lab. Here are just a few of the benefits:

### Faster Results

One of the most obvious benefits of **automated liquid handlers** is that they can help you get results faster. When you're working with manual methods, there's always the potential for human error - whether it's accidental spills or incorrect measurements. But with automated **liquid handling robots**, you can be sure that each sample is handled correctly and efficiently, which can save you valuable time in the long run.

### Improved Reproducibility

Another big benefit of **liquid handling instruments** is that they can help improve the reproducibility of your results. With manual methods, it's easy for things to get lost in translation - one person might interpret a protocol slightly differently than another, or there might be slight variations in technique from one day to the next. But when you use an automated system, you can be sure that every step is carried out exactly as it should be, leading to more reliable results.

### Reduced Costs

In addition to saving time, automating your liquid handling robot can also help reduce costs. When you're working with it manually, there's always the potential for waste - whether it's from spilled samples or incorrect measurements..

### Increased Protection from Contamination

Another big advantage of **automated liquid handlers** is that they can help increase protection from contamination. When you're working with manual methods, there's always the potential for cross-contamination - especially if you're working with dangerous or infectious samples. But with a liquid handler, you can be sure that each sample is handled correctly and without coming into contact with other samples, which can help reduce the risk of contamination.

### Improved Safety

In addition to reducing the risk of contamination, **automated liquid handlers** can also improve safety in the lab. When you're working with manual methods, there's always the potential for accidents - whether it's from spilled chemicals or sharp instruments. But with an automated system, you can minimize the risks and create a safer working environment for everyone in the lab.

## Conclusion:



**Automated liquid handling systems** offer a wide range of benefits for labs of all sizes - from faster results to improved reproducibility to reduced costs. If you're looking for ways to increase efficiency and reproducibility in your lab, an automated liquid handler may be the answer. [Contact us](#) today.

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