

Automation-Compatible Plate Loader for LC/LC-MS Systems PL-40

The pace of analytical efficiency improvements continues to accelerate. In particular, advancements in the automation of sample pretreatment for LC and LC-MS analysis have been occurring at a rapid pace. However, the need to manually load pretreated plates into an instrument has remained a bottleneck.

The PL-40 solves for LC/LC-MS automation, it seamlessly loads plates of pretreated samples into an LC/LC-MS system, enabling a fully automated workflow, from pretreatment to analysis.



Pretreatment

Automatic plate loading

Analysis

The PL-40 can be attached to new or existing Nexera™ series autosamplers.

Loading samples and reagents into the automation-compatible enables automatic analysis of samples when pretreatment is finished.

POINT 1**Automate all steps from sample pretreatment to analysis by linking a robot to the pretreatment unit**

PL-40 is designed to be easy for robots to load/unload plates. Consequently, plate loader operations can be easily linked to an LC/LC-MS system or other pretreatment units and robots.

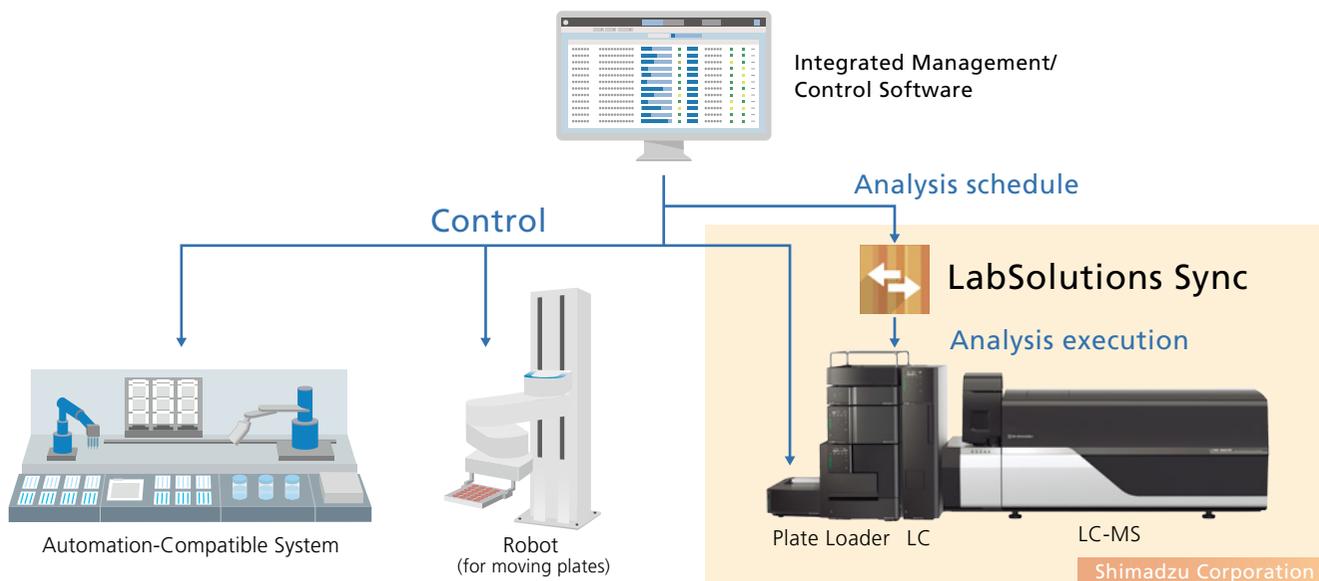
**POINT 2****High-speed plate handling achieves high throughput**

Plate handling actions are executed without affecting the autosampler's system configuration settings, and only require about 10 seconds to load and unload plates. This is especially useful for high-throughput laboratories.

POINT 3**Securely manage sample pretreatment, analysis, and analytical results**

Managing sample pretreatment, analysis, and analytical results with assigned ID numbers ensures traceability.

► **PL-40 Specifications**

Item	Specification
Compatible Plate	ANSI-compliant MTP/DWP*1
Compatible Autosampler	Nexera series
Cycle Time	About 10 seconds for either loading or unloading
Communication	Telnet communication with computer
Size	W240 × D475 × H280 mm*2

*1 Some plates are not supported. Contact Shimadzu if functionality needs to be confirmed in advance.

*2 The size of PL-40 itself.

PL-40 can be controlled by merely sending only a few types of commands from the integrator software. Communication settings are easy to configure.

It can easily connect to a variety of non-Shimadzu integrators to achieve LC/LC-MS system automation.

Product 

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