Automated Weighing
For Efficient Sample Preparation

Fully Automatic Process
Weigh up to 30 samples, either powder or liquid, in one completely unattended run. 1 mg up to several grams of powder can be weighed out automatically into containers of your choice (bottles, capsules, vials etc.).

Increased Productivity and Throughput
Automated powder weighing is considerably faster than manual dosing procedures, making huge time savings for your lab. In addition, while a sample changer is at work, you can focus on other tasks, critical to your analysis.

Accurate Samples
Automated powder weighing is highly accurate and reproducible, even when using small capsules or electrostatically charged substances. OOS and other errors are reduced by up to 50%.

User Protection
Substances are automatically weighed directly into the target container, avoiding manual sample handling, eliminating spills, and hence minimizing operator exposure to toxic substances. If necessary, the whole system can easily be placed inside a safety cabinet or a glove box.

Boost Productivity and Throughput
With the Sample Changer

Install a Sample Changer on your XPR Automatic Balance and prepare batches of up to 30 samples in one fully automated run. This highly flexible setup even enables you to dose different quantities for each of your 30 samples. Different sized containers, as well as capsules and vials of any kind can be filled quickly and automatically.

Not only do you benefit from highly accurate, reproducible, fast and safe weighing, but you have more time available to focus on other critical tasks.

METTLER TOLEDO

Upgrade Your XPR Automatic Balance with a Sample Changer

Technical Specifications

Target vessels	Containers with diameter between 8.50–52 mm
	For vessels with diameter 8.50–31.5 mm: 30 slots
	For vessels with diameter >31.5 mm: 15 slots
	Maximum height: 140 mm (including adapter), 100 mm for XPR106DUHQ
Maximum load of a sample changer	6 kg
Target vessel adapters	Capsules, bottles, vials and tubes
System dimensions W×D×H (mm)	440×483 (without terminal)×453

Sample characteristics	Powder	Liquid
Dispensing range (typical values)	1 mg–5 g[1]	100 mg–10 g (0.1–10 mL for water)
Suitable samples	Free-flowing, fluffy, granular, electrostatically charged	Low-viscosity solvents (<20 cP), e.g. water, acetonitrile, methanol, ethanol, DMSO
Average dispensing time	10–60 s, depending on target weight, powder flow and required accuracy	Maximum flow rate 30g/min (0.5 bar pressure)
Lowest concentration	n/a	0.1 mg/g (0.1 mg/mL for water)

[1] Recommended maximum weight for automated powder dispensing

Container Flexibility

Our specially designed adapters enable you to dispense powders or liquids into a wide variety of different containers.

Substance Tracking

Each dosing head has an integrated RFID chip that can be used to store the substance ID, quantity remaining etc.

LabX – digital data handling and automatic documentation

Connect your XPR Automatic Balance to LabX laboratory software and benefit from:
- Full traceability
- Workflow guidance on the balance terminal
- Seamless connectivity to your chromatography software or LIMS
- Central data storage

All data and process information is saved securely, assisting in compliance with FDA 21 CFR Part 11.

www.mt.com/xpr-automatic

For more information