



Automated staggered sampling system for SOTAX **AT7^{smart}** dissolution testers

- ▶ **Robotic system integrated** with SOTAX AT 7smart dissolution bath
- ▶ Firmware controlled **method programming** and reporting
- ▶ **NO system dead volume**
- ▶ **Automatic sample collection** into capped HPLC vials with dilution capabilities
- ▶ Sampling point at **programmable** USP heights with **sample filtration**
- ▶ **Optional Peltier** sample vial cooling
- ▶ Built-in syringe **cleaning station**

www.sotax.com | [e-mail info@sotax.com](mailto:info@sotax.com)





Technical data

AT 7smart	
Test vessels	7
Temperature	20 °C – 45 °C
Range	± 0.2 °C
Power supply	230 V/50 Hz or 110 V/60 Hz
Width	880 mm (34.65 in)
Depth	520 mm (20.47 in)
Height	980 mm (38.58 in)
Weight approx.	60 kg (132.28 lbs)

Key hardware features

The ASD System is designed as an alternative to the unique SOTAX Hollow Shaft™. The hardware consists of syringe-based liquid handling system that is integrated with the SOTAX AT 7smart.

SOTAX AT 7smart Automated Sampling Device offers the following capabilities:

- ▶ Automated staggered tablet introduction for USP 2
- ▶ Programmable sequential sampling for time points, volume, washing etc.
- ▶ Collection into closed HPLC vials or headspace vials
- ▶ Option of controlled temperature 4°C–20°C
- ▶ Filtration of sample can be done with standard 25 mm syringe filters e.g. Pall™
- ▶ Media Loss replacement
- ▶ Dilution of samples with one-step pre-filling of HPLC vials
- ▶ Built-in syringe cleaning station
- ▶ Conforms to USP/EP/JP/FDA

Syringes

ASD uses the most commonly used Hamilton #701 type syringes, 2.5 ml or 5.0 ml syringes.

Sampling

Single point or profile methods can be defined in firmware driven methods. Due to staggered sampling, minimum sampling intervals of approximately 10 minutes are recommended. Low volume sampling makes the ASD particularly well suited to low-dose and adherent products such as hormones.

Key software features

Users define method parameters including time intervals, sampling volumes, syringe wash cycles, etc. Sample processing information may be entered via the standard keypad terminal by creating a method. Stored methods can be assigned names up to eight characters in length. Stored methods can be created, copied, edited, and viewed from the utilities menu. Methods can be viewed (but not edited) from the job queue menus. ASD records the results of all processing operations in a log file that may be read by an external computer and/or printer connected to the serial port.

Validation and qualification

The Automated Sampling Device meets all requirements relating to validation, qualification and routine calibration. Hardware and system software are validated and documented according to the latest quality guidelines (DQ). Appropriate qualification documentation (IQ/OQ) can optionally be supplied with each system. If required, system validation and qualification can also be carried out in the customer's laboratory by SOTAX.