

Agilent 7600-AS Automated NMR sample changer

Data Sheet



Introduction

The Agilent 7600-AS improves productivity for your NMR laboratory by increasing throughput without increasing maintenance.

Key Benefits

- Versatile–Compatible with all standard NMR sample tubes from 1–10 mm in diameter and lengths up to 9 in. No special caps or spinners are required, allowing you to freely use automation for all your liquid NMR samples.
- **Increase productivity**—Automation saves time, allowing you to make the most of your NMR resources. A cycle time of 30–40 seconds (depending on position) assures high throughput for unattended and multi-user walk-up operations.
- **User friendly**–Seamless integration with VnmrJ software makes autosampler operation both easy and intuitive. The SCARA robot, with its sealed joints, will provide years of reliable and essentially maintenance-free operation



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The major components of the 7600-AS autosampler are comprised of:

- The SCARA robot and safety enclosure
- The sample delivery module
- The robotic arm gripper and laser sensor
- The system alignment and motion detector

The SCARA robot was selected for speed, accuracy, and reliability. Its sealed joints and absolute encoders provide reliable, essentially maintenance-free operation. The sample delivery module (Figure 1) detects and manages samples for maximum throughput and safety.

The robotic arm gripper (Figure 2) manipulates NMR samples by gripping the spinner turbine. This method is compatible with widest range of sample and tube types. The gripper includes a laser sensor for sample verification and monitoring. These components work together to provide reliable highthroughput sampling. The 7600-AS is simply the most advanced autosampler platform available for NMR applications.



Figure 1 Sample delivery module.



Figure 2 Robotic arm gripper and laser sensor.

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