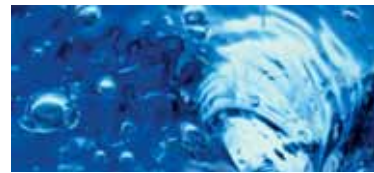




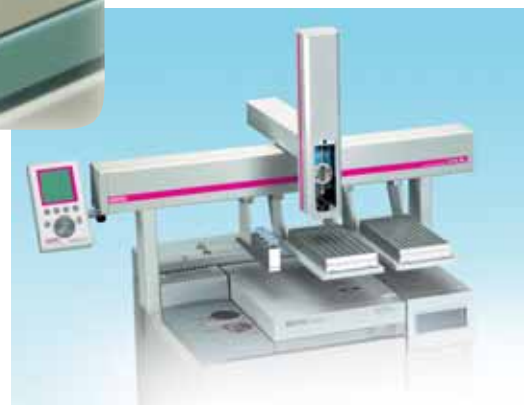
**GERSTEL**

# GERSTEL Automated Liner EXchange ALEX

Automated Liner Exchange for the  
GERSTEL Cooled Injection System CIS 4



*Routine analysis of samples  
with high content of non-  
volatile compounds,  
particulates and other solid  
matrix material*





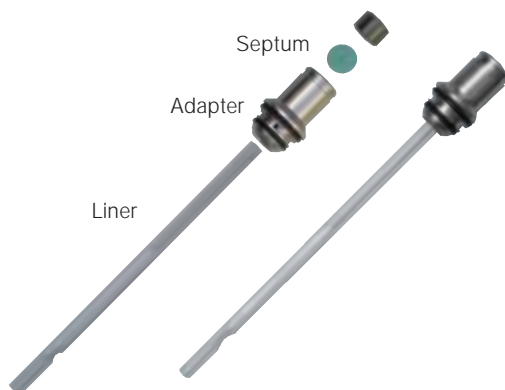
**GERSTEL**

## GERSTEL Automated Liner EXchange ALEX

**Routine analysis system for samples with high levels of non-volatile compounds, particulates and other solid matrix material.**

Matrix material from samples can contaminate a GC-liner, leading to peak broadening and loss of compounds through adsorption in the liner within a few GC runs. Under such conditions, the analyst is forced to perform frequent liner replacement, an operation which normally requires manual intervention. Running large series of samples will represent a serious challenge.

The **GERSTEL Automated Liner EXchange ALEX** technology performs the task of replacing liners in the GERSTEL Cooled Injection System CIS 4. The ALEX system enables fully automated GC analysis of samples with a high matrix load as well as "dirty" extracts, which can be directly injected into the CIS 4 using the GERSTEL Multi Purpose Sampler MPS. A specially designed tray can hold up to 98 CIS 4 liners in individually sealed, contamination-free storage compartments.



Transport adaptors for the liners incorporate the proven sealing technology of the GERSTEL Thermal Desorption System TDS and Twister Desorption Unit TDU. In addition, ALEX Transport Adaptors are fitted with a 3 mm thick standard septum to enable liquid injection.

In connection with the GERSTEL MPS, the ALEX system enables automated CIS 4 liner exchange at predetermined regular intervals in a sequence.

The GERSTEL MASTER Software provides integrated control of the MPS, ALEX system and CIS 4. In combination with the Agilent ChemStation, a single method and sequence list control the entire system including GC and MSD.

### Your Advantage

**Automated Liner Exchange**

▶ *High throughput of "dirty" samples*

**Based on the CIS 4 inlet**

▶ *Direct transfer of existing methods*

**Proven sealing technology from the TDS / TDU**

▶ *Highly reliable system*

**All GERSTEL liners can be used**

▶ *Flexible analysis system*

**Upgrade available for all CIS 4 and MPS 2**

▶ *Limited investment for upgrade*

**Uses standard 5x3 mm Septa**

▶ *Simple standard procedure*

### Ask us how GERSTEL technology can benefit you!

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