

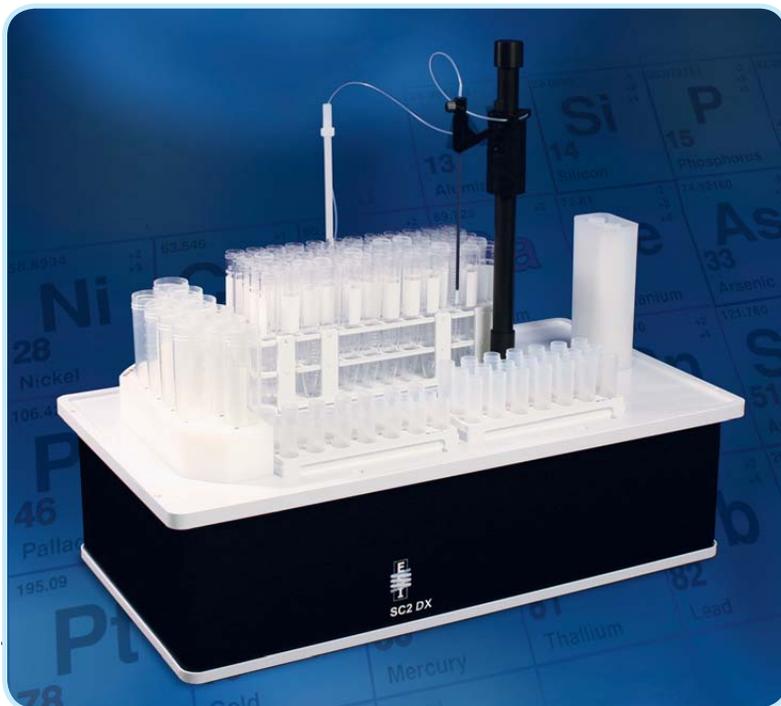
SC-DX System

Fully Integrated Automation for ICP and ICPMS

Elemental Scientific's innovative SC-FAST is the world's fastest-growing automation system for inorganic applications, field-proven over the last five years in premier analytical laboratories worldwide.

ESI now introduces the SC-DX system, a durable, stream-lined, fully-integrated automation system with fully expandable hardware and software supporting inorganic applications. The SC-DX system configurations range from a basic high-performance autosampler to a complete, easy-to-use, on-line sample preparation system.

The SC-DX is a cost-effective way to make difficult analytical problems routine and routine applications productive.



SC-DX Hardware Components

| | |
|---|------------------------------------|
| SC-DX autosamplers | Continuum pumps |
| FAST sample valves (up to 3 valves) | Hydride generators |
| FAST selection valves | periSPEC speciation columns |
| SYRIX Syringe pumps | Preconcentration columns |
| Micro-peristaltic pumps | Chelation columns |

SC-DX Solutions

| | | |
|---------------------|------------------|---------------------------|
| DX-FAST | seaFAST | apexFAST |
| microFAST MS | brineFAST | oilFAST |
| microFAST OS | TRUFAST | DINFAST |
| periSPEC | geoFAST | prepFAST |
| chromFAST | soilFAST | scout_{DX} |

SC-DX Benefits

Flexible - Interfaces to all instruments | Configurable for many applications | Switch between instruments

Durable - Longer life components | Enhanced chemical resistance

Productive - Improves speed and data quality | Alternate and preemptive sampling

Fully integrated | Streamlined | Compact

SC-DX Application Solutions



FAST System
SC-FAST
SC-FAST_{DL}

High Throughput



Geochemistry
geoFAST
prepFAST

High Throughput | Automated Sample Preparation



Micro Samples
microFAST MS
DINFAST

Automated Micro Sample Analysis



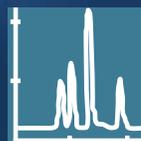
Soil Monitoring
soilFAST

High Throughput | Fast Rinseout



Semiconductor
microFAST MS
microFAST_{HF}

Low Volume | High Purity | High Sensitivity



Speciation
chromFAST
periSPEC

Low-Pressure Automated Elemental Speciation



Petrochemical/Solvents
oilFAST DINFAST
microFAST OS

Volatile Solvents | High Throughput



Preconcentration
seaFAST apexFAST
brineFAST TRUFAST

Automated Column Preconcentration



Environmental
SC-FAST apexFAST
seaFAST chromFAST

High Throughput | High Sensitivity | Matrix Removal | Speciation



Remote Monitoring
scout_{DX}

On-line Remote Sampling



Clinical
SC-FAST
microFAST MS

High Throughput | Micro Samples

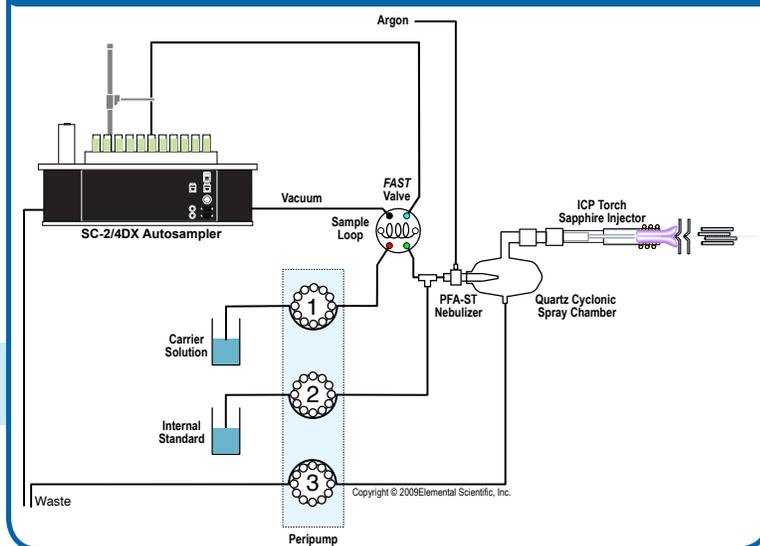


Nuclear
TRUFAST apexFAST
SC-FAST

High Sensitivity | Radioisotope Detection

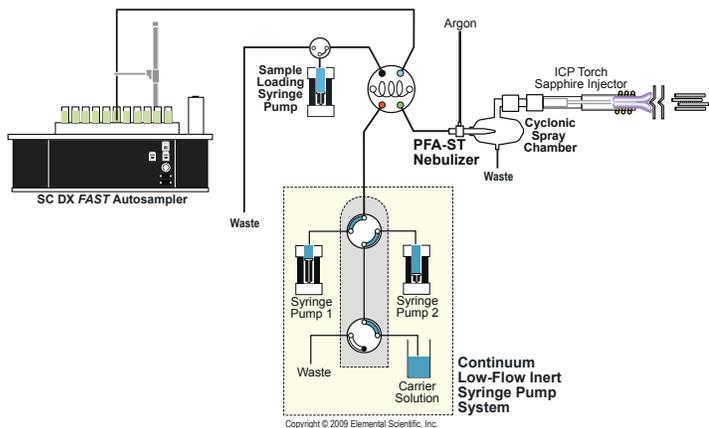
Examples of Application Solutions

SC-FAST



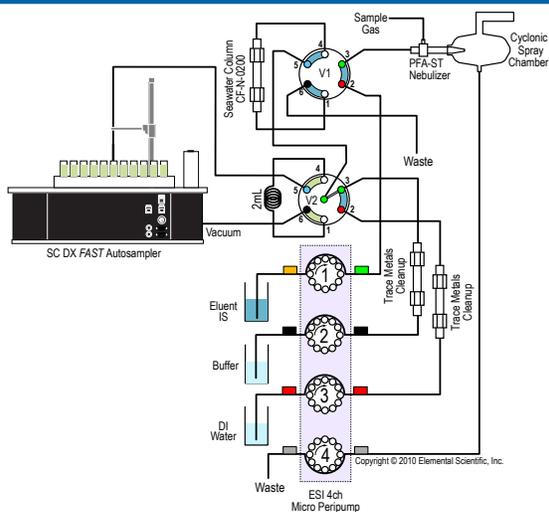
SC-FAST DX High Throughput Systems

microFAST MS



Automated Micro Sample Analysis Systems

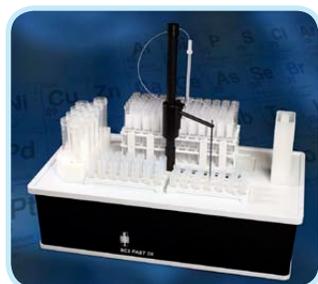
seaFAST



Automated Preconcentration Systems

Elemental Scientific

SC-DX Series of Automation Systems



SC-2DX



SC-4DX



SC-8DX



SC-14DX

SC-DX Accessories



MP² Pump

Micro peristaltic pump
(< 1µL/min to > 10mL/min)



SYRIX Syringe Pump

O-ring-free programmable
syringe pump system



Single and Dual FAST Valves

High throughput valve modules



Chelation Columns
seaFAST and brineFAST
applications



continuum

Enclosed dual valve, dual
syringe pump accessory



PC³

Peltier cooled cyclonic
chamber (+2°C/-5°C)



apex FAST

Compact, high performance
introduction system



PC³ FAST

High throughput Peltier
cooled cyclonic chamber

Sample Capacity

| System | 50mL | 15mL | 8mL | Microtiter-96 (2mL) |
|---------------------|---------|-----------|-----------|---------------------|
| SC-2DX (Super rack) | 52 (64) | 120 (160) | 180 (240) | 384 |
| SC-4DX | 94 | 240 | 360 | 576 |
| SC-8DX | 208 | 480 | 720 | N/A |
| SC-14DX | 304 | 840 | 1260 | 2880 |