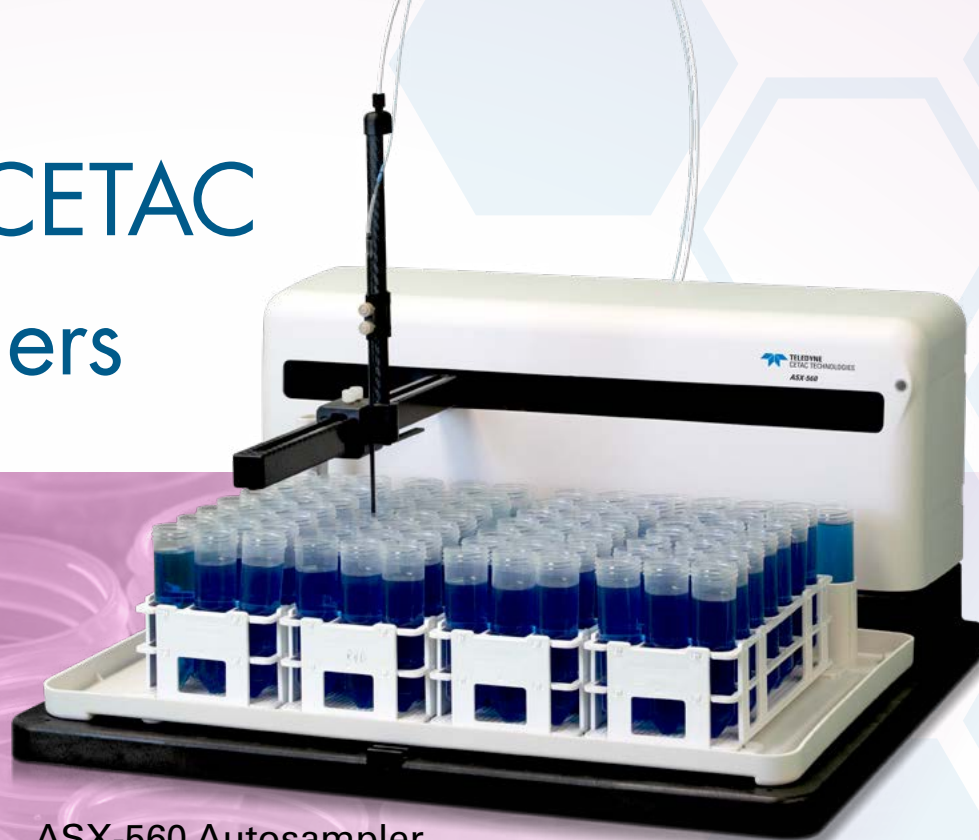


Teledyne CETAC Autosamplers



ASX-560 Autosampler

Setting the Standard

See why users call Teledyne CETAC Autosamplers the best on the market. Put the most reliable, longest-lasting autosampler to work in your lab for the seemingly endless demands of sample analyses. Whether your lab is small, mid-sized, or very large, there's a model to meet your needs!

- Polymer cover, base and sample tray
- Carbon fiber arm and z-drive
- No exposed metal parts
- Flowing rinse station with on-board peristaltic pump
- 10 standards positions for 50 mL vials
- Flexible sample rack configurations
- Fast, quiet operation



ASX-280 Compact
Autosampler



XLR-8₆₀ Extended Autosampler



We've Got You Covered!

Protect Samples, Protect Personnel, Protect the Bottom Line

ENC DC

Autosampler Enclosures

Enclosures loaded with features and options for convenience and reliability:

- Save bench space with an enclosure sized to fit your autosampler (see below)
- Flat pack design to reduce shipping costs
- Shatter-proof polycarbonate construction
- Quickly evacuates harmful fumes to protect samples from contamination and hardware from corrosion
- Easy access to samples and autosampler components through front and rear
- Multiple configuration possibilities for vent and fan
- Multiple ports for tubing and power cords
- Can be used without the fan and filter to function as a convenient dust cover
- One year limited warranty



Dimensions

	Height	Width	Depth	Weight
ENC-560DC	65 cm (26 in)	60 cm (24 in)	58 cm (23 in)	11 kg (25 lb)
ENC-280DC	65 cm (26 in)	43 cm (17 in)	58 cm (23 in)	8 kg (17 lb)
ENC-860DC	98 cm (39 in)	111 cm (44 in)	67 cm (27 in)	22 kg (49 lb)

Shipping Dimensions

	Box 1	Box 2	Base
ENC-560DC	28" x 28" x 1.5" at 15 lbs	8" x 8" x 24" at 10 lb	28" x 25.5" x 1" at 18 lbs
ENC-280DC	28" x 28" x 1.5" at 15 lbs	8" x 8" x 17" at 7 lbs	28" x 18" x 1" at 12 lbs
ENC-860DC	33" x 33" x 1.75" at 30 lbs	12" x 12" x 48" at 23 lbs	48" x 30" x 1" at 35 lbs

Enclosure Materials

- polycarbonate frame
- silicone and polyethylene plugs
- nylon fittings

Exhaust

4" fume hood exhaust attachment
Recommended Ventilation Rate:
12 to 15 cfm (0.34 – 0.42 m³/min)

Optional Accessories

- HEPA filter
- Positive pressure fan
- Gas flow meter (up to 5 L/min)
- Base for irregular surfaces



Building On Automation

Accessories to make your lab faster, smarter, and more efficient

ASXPRESS PLUS

Rapid Sample Introduction

This simple sample injection accessory dramatically increases the throughput of an ICP-OES or ICP-MS. An inert, high-speed vacuum pump quickly loads the sample, reducing uptake time, while a metal-free 6-port injection valve allows for simultaneous analysis and washout. A simple user interface controls the ASXpress plus parameters, allowing the user to adapt the sample introduction to fit their analysis needs.

- Increase throughput
- Improve ICP efficiency
- Reduce sample matrix exposure



SDXHPLD

High Performance Liquid Dilution System

The SDXHPLD system combines the ASX-560 autosampler with a high precision syringe pump for both aliquot and diluent, but goes an additional step using a novel vortex mixing accessory prior to sample introduction to ICP and ICP-MS.

Vortex mixing promotes homogenization of a sample to ensure accurate and precise analysis following dilution, whatever the sample matrix. The resulting fully homogenized dilution improves data quality over in-line combination.



SimPrep

Automated Sample Preparation

Turn your autosampler into an all-purpose liquid handling system. The SimPrep upgrade pairs your autosampler to a high precision dual syringe pump with flexible, simple software. The combination allows you to quickly and accurately automate almost any routine sample preparation task. Whether simple or complex, the SimPrep will get the same result every time.

- Sample dilutions
- Dispensing
- Spikes
- Calibration curves
- Serial dilutions
- Internal standard additions
- 1-to-1 and 1-to-many sample transfers (splitting)



Straightforward, easy to use automation

Every feature of Teledyne CETAC Autosamplers is designed to simplify analysis and save time. That starts with making a reliable machine backed by a 2 year warranty. Other invaluable features include:

- Chemically resistant materials
- Optional dual rinse station
- Fluid mechanical operation
- Quiet, even pumping
- Configurable XYZ movement
- Dust Cover Enclosure (optional)

Advanced Mechanical Design

- Injection molded parts
 - Broad chemical compatibility
 - Improved high resolution applications
- Advanced pump technology
 - Quiet operation
 - Easy tubing replacement options
 - Wide-ranging flow capabilities,
 - 0.1 – 80 mL/min
 - Conserve expensive rinse solution
- Easy serviceability and maintenance
- Simple accessory interfaces
- Dual rinse station

Advanced Electronics

- State-of-the-art movement profile
 - Quiet movement
 - Precise, configurable XYZ movement
 - Expansive movement speed options
- High resolution positioning
 - Flawless accuracy
 - Active resonance control
- Electronic home position alignment
- User-friendly firmware and configuration software utilities
- Backward compatible communications
 - Seamless upgrade path
- Performance proven technology

Technical Specifications

Dimensions

	ASX-560	ASX-280	XLR-860
Height*	62 cm (24")	62 cm (24")	66.7 cm (26.3")
Width	58 cm (22.8")	36 cm (14")	112 cm (44")
Depth	56 cm (22")	56 cm (22")	59.5 cm (23.5")
Weight	11.7 kg (26 lbs)	8.1 kg (17.8 lbs)	20.4 kg (45 lbs)

*with sample probe
allow additional space for cables

Sample Area

	ASX-560	ASX-280	XLR-860
X-Axis	42.0 cm (16.54")	22.2 cm (8.74")	2×42.0 cm (16.54")
Y-Axis	30.0 cm (11.81")	30.0 cm (11.81")	30.0 cm (11.81")
Z-Axis	15.5 cm (6.10")	15.5 cm (6.10")	15.5 cm (6.10")
Tray	4 rack capacity	2 rack capacity	8 rack capacity

Pump

0 – 80 mL/min

Speed

Axis	Min	Max
X	100 mm/sec	330 mm/sec
Y	73 mm/sec	411 mm/sec
Z	164 mm/sec	476 mm/sec

Autosampler Control Utilities

Autosampler Configuration tool
for control of XYZ and pump
Firmware Updater Utility
IQ/OQ and Log Extractor Utilities

Communication Interface

2 Serial (RS-232) ports
USB (virtual COM port)

Power Requirements

100-240 VAC, 47-63 Hz, 1.9A

Options

Dust Cover Enclosures, sized to fit
SDX_{HPLD} High Performance Liquid Dilution System
ASXPRESS[®] PLUS Rapid Sample Introduction System