

Carbon Fiber Sample Probes and Improved Z-Drive

CETAC Automation has introduced carbon fiber sample probes and improved Z-drive assembly for CETAC cable-driven autosamplers. These new features are designed to enhance the overall performance and accuracy of these autosampler models.

Features	Benefits
Elimination of probe guide plate	Eliminates cross-contamination
Rigid carbon fiber construction	Ensures probe accuracy
Beveled probe tip design	Prevents droplet carryover
Reduced probe length	Reduces sample uptake volume and analysis time
Simple installation	Allows for quick upgrade of existing units

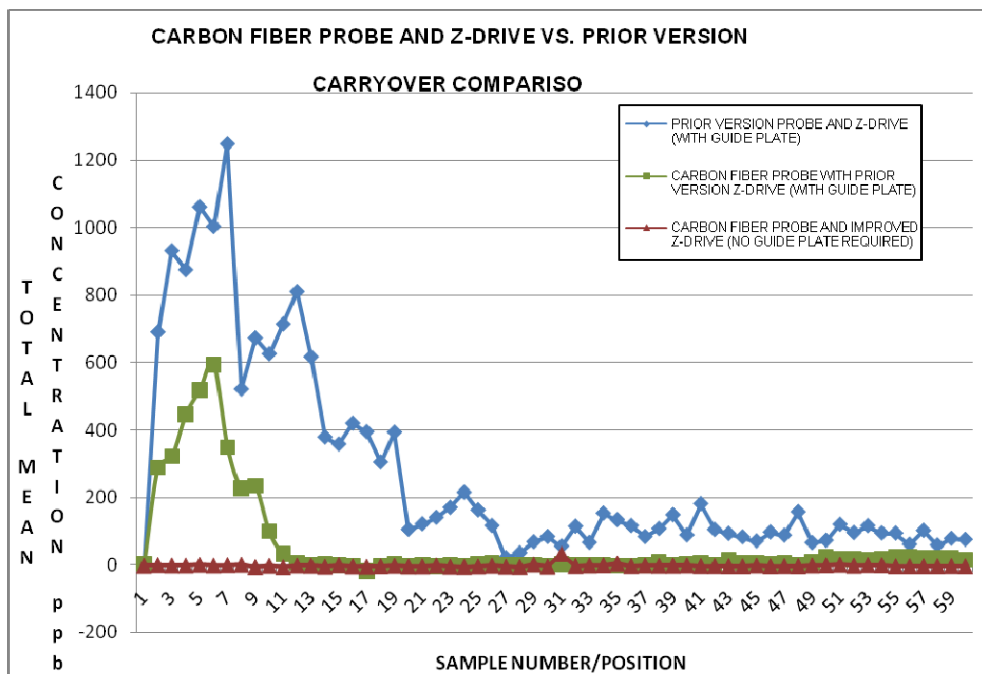


CETAC Carbon Fiber Probe

Carbon fiber probes and the improved Z-drive are standard equipment on most ASX-260, ASX-520, ASX-520HS and EXR-8 autosamplers as of January 2009. An upgrade is available for all listed models manufactured before that time, as well as ASX-500 and ASX-510 models.

ANALYTICAL INDICATION OF IMPROVEMENT BENEFIT

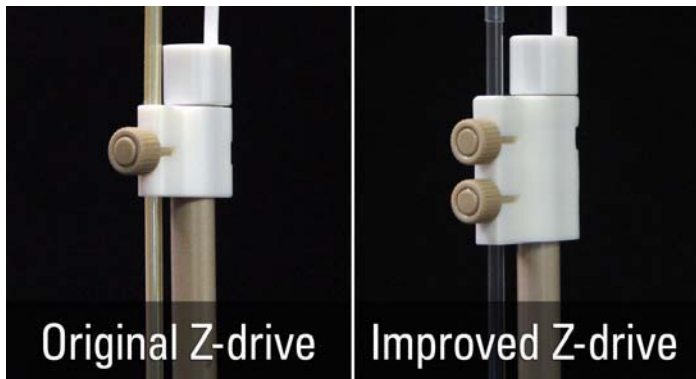
The graph shown at right depicts a 60 sample run on a CETAC ASX-520 series autosampler, indicating virtual elimination of carryover when utilizing the carbon fiber probe in tandem with the improved Z-drive assembly. Note the dramatic reduction in carryover levels (when using the carbon fiber probe and improved Z-drive assembly) for the approximate initial third of samples (those samples where repetitive passing overhead of the probe to reach subsequent samples creates higher carryover levels for those positions), and the continued significant improvement over the entire sample run.



NOTE: To obtain carryover elimination as depicted in the graph above requires carbon fiber probe and SP6410 Z-drive assembly.

IS AN UPGRADE NEEDED?

To determine whether a particular autosampler is equipped with the improved Z-drive for carbon fiber probes, compare the probe fastener on the Z-drive to the photos below.



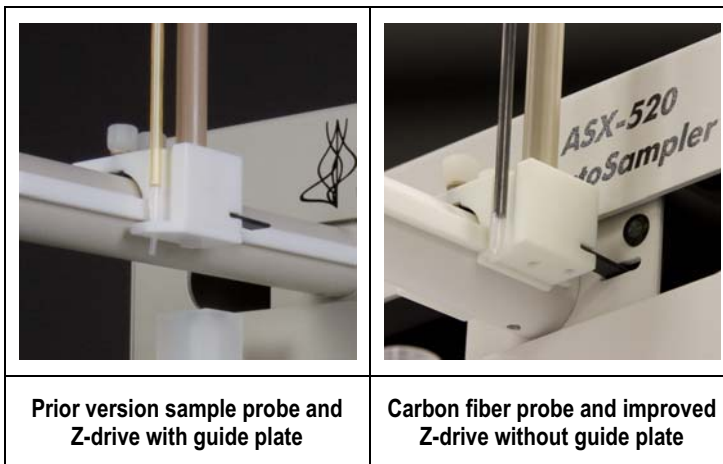
The manufacture date of your autosampler can be found by referring to the first four digits of the serial number. These four digits refer to the month and year of manufacture in MMY format.

010900A520

NOTE: It is recommended that the autosampler be visually inspected as described above to determine whether it is eligible for upgrade. Some older units may have been upgraded ahead of the switchover, while some newer units may not have been included in the change.

The improved Z-drive and carbon fiber probes are intended to work together to improve performance results. As such, it is not recommended that one be used without the other, as that would eliminate the benefits of the system.

If desired, either Z-drive can accommodate carbon fiber or non-carbon fiber probes. However, any combination setup would still require the use of the guide plate located at the bottom of the Z-drive to ensure probe accuracy. (Refer to the images below.)



ORDERING INFORMATION

	SP6410	Improved Z-drive assembly for use with carbon fiber probes
	SP5799C	Carbon Fiber Sample Probe, 0.3 mm ID (black band)
	SP5800C	Carbon Fiber Sample Probe, 0.5 mm ID (blue band)
	SP5950C	Carbon Fiber Sample Probe, 0.9 mm ID (yellow band) ADX-500 users
	SP5796C	Carbon Fiber Sample Probe, 0.8 mm ID (red band)
	SP5797C	Carbon Fiber Sample Probe, 0.8 mm ID (red band) MERCURY users
	SP5944C	Carbon Fiber Sample Probe, 0.8 mm ID (red band) UNICAM AA users
	SP6408C	Carbon Fiber Sample Probe, 1.0 mm ID (2 blue band) DSA-7 users
	SP6013C	Carbon Fiber Sample Probe, 1.0 mm ID (2 blue band) UNICAM UV users
	SP6033C	Carbon Fiber Sample Probe, 1.0 mm ID (2 blue band) MERCURY users
SP6410 - Improved Z-drive assembly for use with Carbon Fiber Probes	NOTE: Carbon fiber probe part numbers are distinguished by a "C" suffix. When ordering carbon fiber probes, be certain to include the "C" suffix to ensure receipt of the correct probe.	

To order, please contact your local CETAC representative, or visit www.cetac.com.