



"It is the primary mission of Andwin Scientific to meet customer requirements and to improve customer satisfaction through our dedication of meeting our company's quality objectives of continuous process improvement, through on-time deliveries, total product and process conformance, outstanding customer service, quality products and low costs."

**Woman-Owned
Small Business**

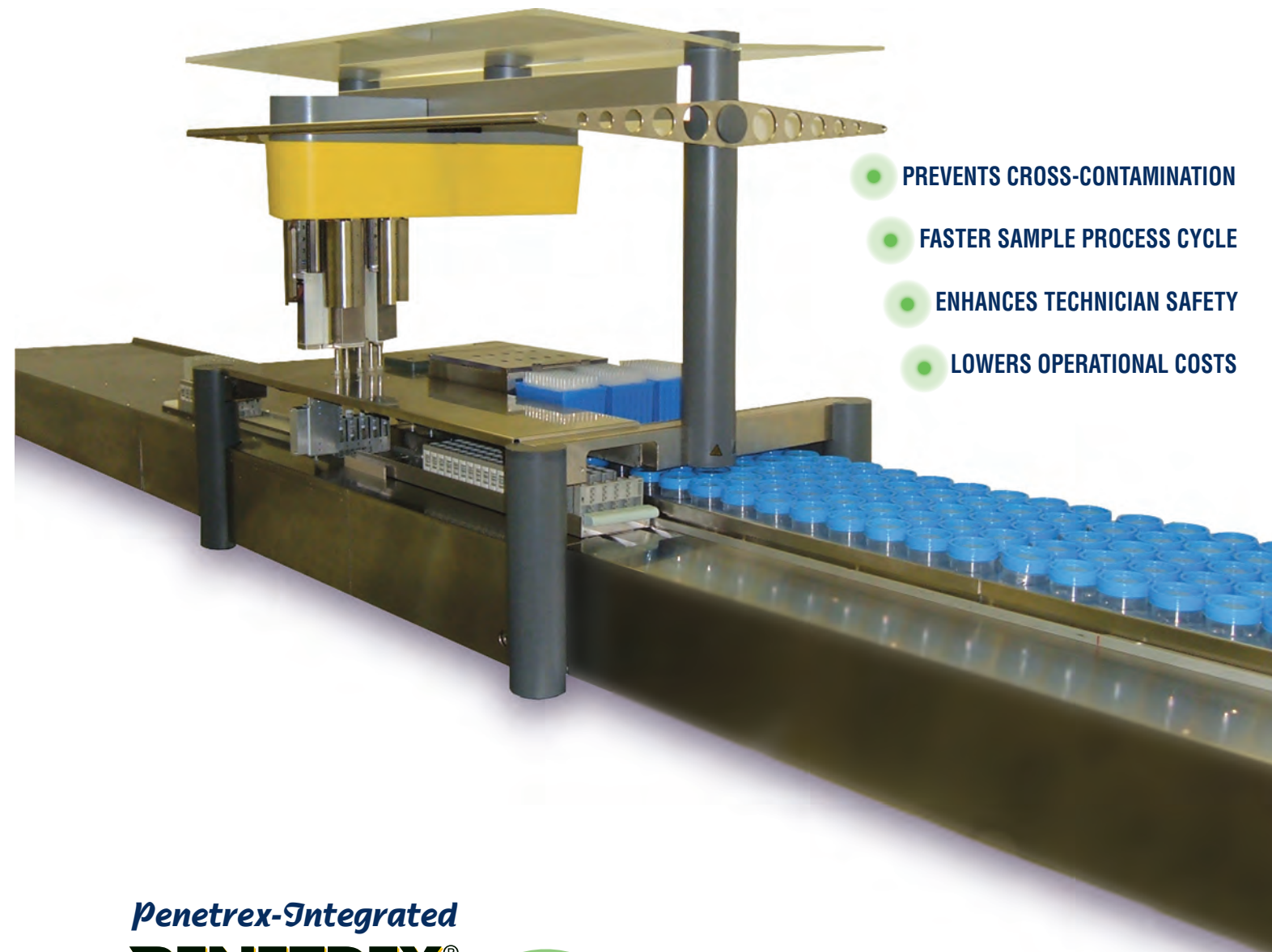


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Automated Liquid Handling System

INTEGRATED FOR USE WITH PENETREX® SPECIMEN CONTAINERS



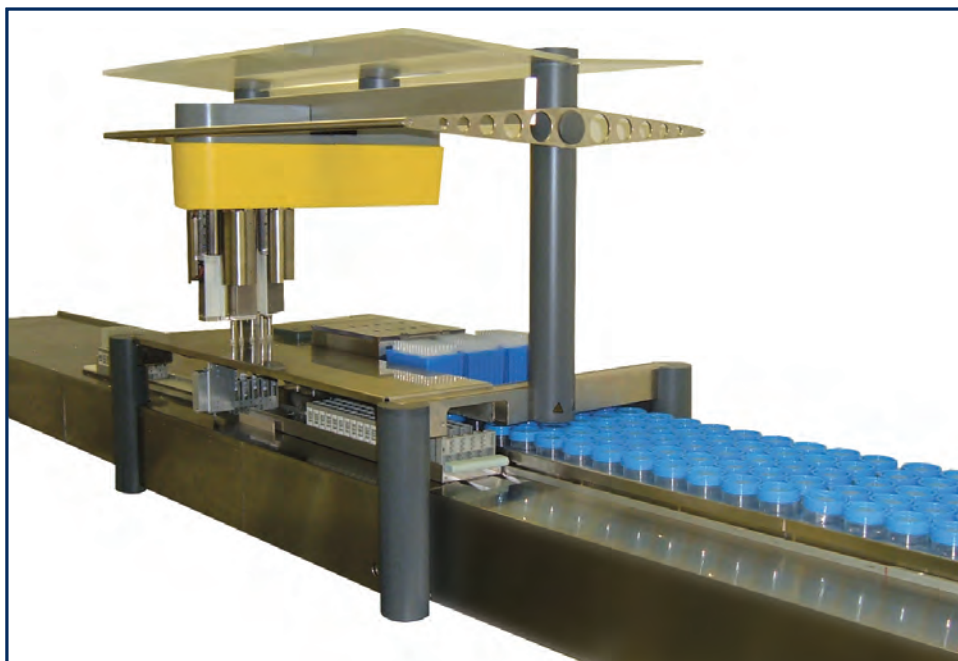
- PREVENTS CROSS-CONTAMINATION
- FASTER SAMPLE PROCESS CYCLE
- ENHANCES TECHNICIAN SAFETY
- LOWERS OPERATIONAL COSTS

Penetrex-Integrated

PENETREX®

THE WORLD'S ONLY
 SELF-RESEALING
 PIPET TIP-PIERCEABLE
 LIQUID SAMPLE CONTAINER





THE FIRST PENETREX-COMPATIBLE LIQUID HANDLING SYSTEM

The new P3 Automated Liquid Handling System is the first instrument to offer full compatibility with patented pierceable, resealing Penetrex containers.

The unique pipet and reseat containers allow sampling liquid specimens from a container without removing the cap.

The benefits of this exclusive feature when compared to competitors include reducing the risk of cross-contamination, cutting operational steps, increasing personal safety and improving specimen integrity.



PREVENTS CROSS-CONTAMINATION AND DOUBLE PRODUCTIVITY
 Flip-top and screw-cap containers are known to splash and spill in both automated and manual sample handling environments. Our cap stays closed virtually eliminating the most common causes of cross-contamination. A container that remains closed also speeds through manual and automated procedures by eliminating the clumsy and cumbersome steps of opening and reclosing the vessel.



UNLIMITED CONTAINER OPTIONS

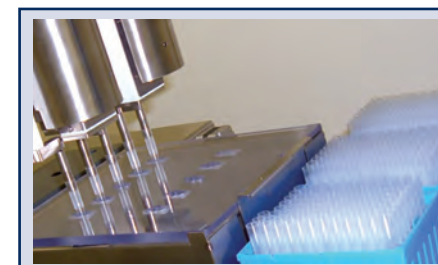
Penetrex seals are pierceable by standard pipette tips and other blunt devices such as oral medication syringes. Andwin offers standard and custom closure solutions for a variety of automated and manual processes and liquid storage needs. Bar coding and tamper-evidence control are easily incorporated into virtually any Penetrex container application.



Flexible system works with various bar-coding, labeling and tamper-evidence protection options.

P3 System Features and Specifications

Speed:	400 samples per hour
Aliquot Volume:	Standard range: 0.75 ml - 1.0 ml
Sample Load:	Minimum 150 sample containers and 150 receiver tubes
Pipette Tips:	Auto-mounting and disposal of standard, commercially available pipette tps
Tip Spacing:	True variable tip spacing allows complete flexibility in tip positioning and transfer assignments
Fluid Sensor:	Fluid depth sensing system using standard polypropylene tips
Sample Container Volume:	40 ml - 90 ml
Receiver Tube Volume:	5 ml - 20 ml
PC Operating System:	Embedded PC running Windows XP Pro
Startup:	Automated startup and systems self-check
LIMS Interface:	Compliant with EIA RS-232C, ASTM E1381 and ASTM E1394 network accessible
Data Connectivity:	RS232, USB, Network (TCP/IP (Ethernet), Direct Database Access (ODBC)
User Logout Option:	User may log out allowing another to log in without operations interruption
Barcoding:	Code 3 of 9 and 128 format barcodes, multi-location placement options
PC Data:	Real time data on batch run quantities, container and receiver tube ID numbers and all errors
Data Backup:	Utility provides 8-hour backup of all data
Security:	Three level security access control with full audit trail recording
Error Alerts:	Audible alarm for fluid depth error, rack jam, bar code error, etc.
Operation Personnel:	A maximum of 2 technicians needed at any time for all operations
Power Backup:	Power outage protection to allow processing of at least 150 specimens in case of outage
Robotic Inaccuracy:	±0.2 mm max position error in X, Y, Z directions
Volumetric Imprecision:	±1% max. error at 1 ml
Volumetric Inaccuracy:	±1% max. error at 1 ml
Electrical Requirements:	110 VAC, 60 Hz
Dimensions (inches):	182 L x 28 W x 36 H
Weight (lbs):	316 lbs.
Customizations:	System interface, hardware and operations may be customized.



USES ECONOMICAL POLYPROPYLENE PIPETTE TIPS

The fluid depth sensing system uses standard polypropylene pipette tips. Sensing pressure instead of conductivity, the P3 provides significant cost-savings and detects smaller volumes vs. competitors that use conductivity sensors which require the use of expensive conductive carbon pipette tips.



Penetrex-Integrated