

Compact Sample Changer ASC-3

An innovative Compact Sample Changer for automated low-background gamma spectroscopy in counting laboratories at nuclear and research facilities. Occupying only 1.25m², the ASC-3 can free up valuable laboratory space.

DETECTOR

- The ASC-3 is designed for use with a Germanium detector, electrically or liquid cooled, to measure low levels of nuclear radiation in bulk samples.
- Detector housed in a Pb measurement well with graded shield.
- The well lid is automatically closed to isolate the sample from any background radiation.
- The Ge Detector together with a Spectrum Analyser is capable of detecting and measuring minute radioactive activities in almost all materials.
- ASC-3 is compliant with CONNECTIONS-32 architecture so can be network controlled.
- The ASC-3 is designed to be versatile, easy to use, and safe to operate.

FEATURES

- **Space saving design** minimises floor space needed, ≈1.25m²
- Modular 2 part construction, allowing for **simple installation** into smaller spaces. 107cm x 120cm x 199cm
- **Fully enclosed** Aluminium framework with Polycarbonate windows for viewing.
- With **only front access needed** for operation and routine maintenance, the ASC-3 can maximise laboratory space.
- **High precision** automated pick and place system.
- Gemini ASC-3 can be configured to work with any existing well counter to meet new levels of **safety** and **throughput**
- **Pull out sample drawer** makes loading batch samples easier.
- Full height front door gives the operator unobstructed access to detector for removal /refilling and easy access for **manual loading** samples.



AUTOMATIC SAMPLE CHANGER

Gemini technology have been designing, manufacturing and commissioning Automatic Sample Changers for 25 years. We have systems currently working in Italy, Portugal, France, Germany, Austria, China, Singapore, UAE, USA, as well as all over the UK.



SAMPLES

- Specially constructed **Sample Carriers**, varying from, 15cc to 4000cc in capacity, in different quantities and combinations makes it very simple to tailor the ASC-3 to each users requirements.
- A full height front door gives easy access for **manually loaded** samples.
- **Pull out Sample Drawer** is simple to fill and can be configured to hold a different quantity and size of samples.
- The counting time between samples will vary depending on the level of activity.

SAFETY AND CONTROL

- The ASC-3 eliminates the necessity for operator intervention, thus freeing a valuable member of your personnel to carry out other work
- Fully safety interlocked drawer and door.
- PLC controlled with HMI control panel, allowing greater flexibility with sample measurements and scheduling.
- The ASC-3 is capable of 24 hour operation.



Designed to meet your requirements.

- Sample Volume.
 - Sample Containers
 - Sample Quantity.
 - Operation Modes
 - Fully/Semi Automatic
 - Pickup head style
 - Fits Various Detector Model
 - Detector Orientation
 - Well Shielding Thickness
 - Operating Voltage
 - Access door style
 - No. of access doors.
 - Overall Footprint
 - Overall Height
- A fully customer specific ASC-3 can easily be designed and supplied in a **short lead time.**
 - Gemini ASC-3 can be easily integrated around an existing well counter to meet new levels of safety and throughput

