ADVANCED TECHNOLOGY FOR A SAFER WORLD

CRICKET MAGNET

Magnet Mounted
Radiation Detection System

Find radioactive sources that other radiation detection systems miss

The CRICKET MAGNET is the world's leading, most rugged and sensitive radiation detection magnet mounted system on the market.

Fit to any magnet, in any application

The CRICKET radiation detection system is designed specifically to meet the needs of the scrap, steel, and waste industries. The CRICKET's revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where radiation detection systems never existed before. The level of detection capability will far exceed any conventional radiation detection system, including detection systems that are mounted on the boom of a crane, regardless of detector size.

Get closer, scan longer, with more accuracy

Mounting the CRICKET in a magnet application allows direct exposure to all the material being handled. There are two different opportunities to analyze all the scrap material during the handling process. Firstly, the CRICKET system can scan on a manual basis, material may be scanned on the surface before the load is even picked up. Secondly, once the magnet is energized the load is scanned while in the magnet allowing for the highest level of sensitivity.

These three scanning conditions allow the CRICKET to provide the highest degree of detection capability for low level radioactive material.

FEATURES

- Proven, tested, innovative leading-edge technology
- Unparalleled durability
- User friendly, easy to operat
- Easy to install and maintenance friendly
- Supervisory software capable
- Neutron detection available

Detect radioactivity in high density materials

The Cricket Magnet series of radiation detection systems have been designed to detect low Gamma Ray emissions in high density materials. The Cricket Magnet incorporates sodium iodide thallium doped crystals (NaI(Tl)) specifically selected for high resolution signal response. The crystals are protected inside a stainless steel case with a low density aluminum door.

LAURUS Systems, Inc. - Ph: 410-465-5558 - Fax: 410-465-5257 - www.LaurusSystems.com

CRICKET MAGNET

The CRICKET Grapple consists of three assemblies:

- The protective shield
- The detection unit
- A controller

Detector Protective Shield

- Fits to any type of mechanical, hydraulic or electrohydraulic grapple
- The shields high strength and wear resistance design is capable of withstanding severe impacts on a continuous basis
- Easy to install and service
- Equipped with doors for easy access to the internal detector assembly(s)
- Detector occupies a small volume of the grapple that does not affect the scrap handling operations

Detection Unit

- The primary component of the detector system
- Size of the detection system is configured to the size of the apparatus
- Contains the electronic and detection assemblies which are designed to withstand SEVERE repeated impacts and vibration associated with these applications
  - The system electronics include several sensors that are used to monitor the operating conditions of the magnet such as temperature, motion and impact levels
  - The internal assemblies are mounted specifically so that they are isolated from the direct transfer of energy
  - Wireless system utilizes a low powered digital non-licensed frequency that can transmit up to 1000ft (300m) line of sight

Cricket Control Console

- High speed microprocessor
- Easy to read 8.4” touchscreen LCD
- System displays radiation level, temperature, magnetic field ON and detector voltage level
- Manual scanning mode
- Audio and visual alarms
- Alarm data storage
- Wireless transceiver with antenna
- Mounting bracket

Options

- Supervisory software
- Neutron detection

LAURUS SYSTEMS

RADCOMM
RADIATION DETECTION SYSTEMS

LAURUS Systems, Inc. - Ph: 410-465-5558 - Fax: 410-465-5257 - www.LaurusSystems.com