



systems | services | solutions

Pajarito Scientific Corporation



Customer Focused – Solution Driven

TechniCART™

Overview

- Portable Gamma Spectroscopy
- Neutron Slab Counters
- Criticality Safety
- TRU/LLW Pre-Sorting
- Safeguards and Accountancy
- Waste Assay for Transport and Disposal
- Workshop / Manufacturing Environments
- Homeland Security

PSC TechniCART™

Introduction

The TechniCART™ is engineered to adapt to support various types of detection & measurement equipment. The design results in a mobile, multi-use platform that is lightweight, rugged, affordable and ergonomically efficient.

Designed for professionals where performance is crucial, the TechniCART™ reduces time and effort in daily operations with its easy height adjusting slide and variable tilt adjustment.

TechniCART™ is specifically designed to allow rapid and easy transportation of an entire portable assay system including HPGe detector, shield and collimator together with laptop and acquisition electronics. The flat-free large caster wheels permit movement through warehouse, dirt, grass and gravel type terrain.

Benefits

- Transportable platform with rapid set up enables accurate assay of waste in the field
- Accommodates many different types of equipment, eliminating the need to use multiple carts
- No special tools required for assembly or reconfiguration.
- High performance caster wheels allow the system to be deployed on gravel and dirt terrain



Field Deployment



Base Unit

Features

- Quick and easy set-up
- Ergonomic design
- Transportable over multiple surfaces
- Can be configured in multiple deployment configurations
- Gross capacity of 500 lbs
- Trays accommodate laptop, electronics and other personal equipment
- Engineered high performance support structure ensures personnel safety in the field
- Easy to clean / decontaminate
- Optional collimator / shielding
- Reproducible fixed detector location
- Adjustable tilt and height
- Durable stainless steel and anodized components
- Adjustable width to improve stability

Customer Focused Solution Driven

Specifications

TechniCART™ provides a high strength stainless steel frame accommodating payloads of up to 500 lb, with the option of accommodating two detectors at the same time using a base plate adapter. Adapters can be provided to accommodate most commercially available HPGe detectors, collimators and shielding.

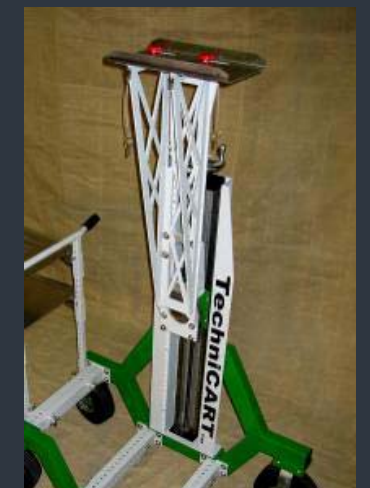
Assembly	Bolt together (no special tools required). Shipped fully assembled
Configuration	Spring pins, hand knobs (no special tools required)
Finish	Powder coated frame. Stainless and anodized components. Easily cleaned or decontaminated
Size	Base Unit Length: 44 inches (112 cm), Rigged length max: 57 inches (145 cm), Width: 24 to 36 inches (61 to 91 cm)
Wheels/Casters	Height 10 inches (25.40 cm), Width 3.5 inches (8.89 cm) Easy grease fittings, foam filled flat-free. 2 fixed, 2 swivel with brakes
Adjustment Height	Base model: 7 inches to 44 inches (18 cm to 112 cm) Extension arm: Up to 83 inches (211 cm).
Tilt Adjustment	+/- 180 degrees on pivot bearing
Ergonomic Push Handle	Spring pin adjustment
Equipment Trays	2 each, dual position stainless steel trays, 1 slide in side shelf
Capacity	500 lbs (226.7 kg) gross. Max 125 lbs (56.7 kg) on extension arm
Detection Equipment Supported	HPGe (liquid nitrogen or electro-mechanically cooled) NaI (TI) Scintillator, 3He Neutron Proportional Counter Slab Monitors
Collimator	Optional lead or steel collimator.
Shielding	Optional polyethylene shielding for neutron detectors.
Options	Adapters available to accept all major commercial HPGe detectors and custom / off-the-shelf detection and measurement equipment.

TechniCART™ with Expansion Capabilities



Base Unit

Designed for Efficient Detection Applications



Extension Arm

Quality Assurance

Quality and Safety are integral aspects of the PSC operation.

PSC's Quality Management Systems are fully accredited to ISO 9001:2008 and are NQA-1 compliant.

TechniCART™ II Ultra-Mobile



Customer Base:

- Most US DOE Facilities
- US Commercial Nuclear
- Chinese Nuclear Power Plants
- JNFL Rokkasho Reprocessing Plant, Japan
- IAEA Vienna
- UK NDA Sites
- ZPI & Bruce Power, Canada

Company Profile

PSC began as Pajarito Scientific Corp. (PSC), a Los Alamos National Laboratory technology transfer company, in 1986.

PSC is an American Owned Small Business with an enviable safety record.

We provide systems and services for both U.S. and international nuclear customers.

PSC is committed to providing high quality, cost-effective solutions.



David Heath
CEO



George E. Dials
President

Pajarito Scientific Corporation



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