

- Communications Earth Terminals – A wide variety of over 200 terminals including low cost 4 and 12 GHz TV receive only, and 2 way fixed and transportable terminals (4/6 and 12/14 GHz) (1974-present).

- Satellite Systems Test Sets – ANIK C/SBS (12/14 GHz computerized payload test and integration support unit, Hughes Aircraft Co, and DOC); ANIK D – 4/6 GHz (as for ANIK C, SPAR Aerospace and DOC) (1978-1981); and in-orbit test systems for INMARSAT and Luxembourg (1987-1990).

- DEFENSE:

- Digital Switches – NORAD Joint surveillance System (1979-1981) (digital switches to handle up to 84 channels of digitized radar data, Hughes Aircraft Co); and Miscellaneous Digital Switches (1981-present) (as for JSS above, Hughes Aircraft Co).

- Satellite Control Centers – SARSAT Canadian Mission Control Center (1981-1982) (installed at Trenton, Ontario as part of Canada's contribution to the international Search and Rescue Satellite (SARSAT) Program, provides control and monitoring capability for the entire Canadian SARSAT system, Department of National Defense).

- Tracking Systems – Air Defense Aerial Target Tracking System (1981-present) (developing a tracking antenna, telemetry receiving system for use with target drones at the Defense Research Establishment Suffield in Alberta, Department of National Defense).

- Communications Systems – Project Eureka (1981-1983) (designed, developed and installed a full, 2-way satellite communications ground system in Ottawa and Eureka to provide a data link for the DND (Project Hurricane), and Telesat Canada).

- SED is the system designer and the system integration manager for the external and miscellaneous interior communications systems, and the meteorological systems for the six new Canadian Patrol Frigates for PARAMAX Electronics (a subsidiary of Sperry) (1983-Present).

**KEYWORDS:** Aerial Target Tracking System; Communications Systems; Computers; Digital Switches; Ground Control Equipment; Ground Stations; In-Orbit Real-Time Test; Instrumentation; Payload Design; Payload Test Services; Program Management; Satellite Communications; Ground Stations; Satellite Telemetry Tracking Stations; Simulation Programs; Systems Engineering; Systems Studies.

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## SEI INDUSTRIES Ltd

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**HISTORY:** SEI Industries Ltd was incorporated in May 1978 as a product development/marketing company, and since January 1983, has been involved exclusively in the design, manufacture and marketing of its own products.

**CAPABILITY:** SEI Industries Ltd is primarily involved in the design, manufacture and marketing of fabric related products for the aviation, mining, forestry, and marine industries. Current products include:

- The Bambi Bucket – an all-fabric fire fighting bucket for helicopters. Since its introduction to the world market in 1983, the Bambi Bucket has become the standard for such equipment and is now being specified as the only product acceptable for forest fire-fighting contracts by a growing number of forestry agencies, fire departments and military organizations all over the world.

- The Fuel-Easy – a fully collapsible lightweight, free-standing, flyable fuel container for helicopters is a convenient and cost-effective alternative to fuel drums. The Fuel-Easy reduces the causes of fuel contamination because it fills from the top and is locked for security by a Kamlop cap. It empties from the bottom to prevent wastage through unused fuel.

- The Terra Tank – SEI Industries utilizes the latest in high-tensile strength/lightweight fabrics to produce a new generation of ground fuel storage bladders which replace the old generation of bladders made of heavy rubber compounds. This lightweight feature is crucial to the aviation industry. The Terra Tank is used in helicopter operations (often in conjunction with the Fuel-Easy), as well as in many other operations requiring high volume, collapsible, ground fuel storage capabilities. The Terra Tank is also available for POTABLE WATER storage and can be made to meet military specifications. Standard grades for potable water use US Food and Drug Administration approved fabrics. Custom Terra Tanks can be made for boats, trucks, helicopters, fixed-wing aircraft, etc.

- The Jet-Net – is SEI's answer to the logistical problems of high seas marine personnel search and rescue operations. Developed with assistance from the Canadian Coast Guard, the Jet-Net is an inflatable, self-propelled, remote controlled rescue net designed for use from helicopters, ships, oil rigs, etc. Helicopter rescue situations are greatly aided by use of the Jet-Net because it can be inflated and lowered away from the victim to protect them from the rotor blade downwash. The Jet-Net can then be directed by a crew member by remote control to the victim. Once captured in the Jet-Net, the victim is winched aboard and flown to safety.

- The Buoywall – is an open top portable water tank used for remote firefighting where there is inadequate supplies of water. They are also used in urban or rural areas where there is a need for a water reservoir. It is also used as a dip tank for helicopters using SEI's Bambi Bucket. The Buoywall assists any situation where water storage is necessary. Once emptied, the tank can easily be moved as it folds down into a convenient pile, ready for shipment or storage.

Other capabilities include – the design and manufacture of high-thrust electric thruster motors for marine craft; inflatable float design and manufacture for light aircraft; and technical problem-solving involving new-generation high strength/lightweight fabrics.

**AVERAGE WORK FORCE:** 40

**GROSS SALES:** 1986 – \$1.3M  
1987 – \$2.0M

**PLANT SIZE:** 5,000 Sq Ft

**EQUIPMENT:** Equipment includes Electronic RF welding equipment for welding of coated fabrics, assorted sewing and machining equipment, 6000 gal test tank with crane (max capability 1,000 lbs), and in-house computer systems – IBM and Wang.

**EXPERIENCE:** Present customers include various departments in the Canadian and US Governments, as well as other government, military, paramilitary and commercial operations world-wide.

**KEYWORDS:** Collapsible Storage Containers; Fabric Structures; Fire Fighting Equipment; Fuel Storage; Fuel Systems; Helicopter External Load Equipment; Inflatable Floats; Inflatable Rescue Equipment; Life Saving Equipment; Rescue Equipment; Search & Rescue Equipment; Tanks (Collapsible); Thruster Motors (Electric); Underwater Salvage Equipment; Water Reservoirs; Water Storage; Water Transport.

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## SENSYS

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