

Canada

Rail Signalling, Communications and Track Equipment

ADVANCED  ACCURATE  RELIABLE

Many of today's safe and efficient rail operations use **Canadian signalling, communications and track equipment**. Technologically advanced and top quality Canadian rail components are recognized globally for meeting all the needs of the rail industry.

Canadian companies have created niche areas of expertise and have developed new and innovative products. Many companies possess patented technology, including communications programs, vehicle maintenance monitoring systems and advanced train control systems for passenger and freight operations.

Canada shipped over C\$100 million of signalling, communications and track equipment in 2002 to rail operations throughout the world.



Canadian companies have pioneered innovation in the industry that improves safety, efficiency and productivity for rail operations.

(Photo: CANAC Inc.)

CANADA'S GLOBAL PRESENCE

- ▶ **Alcatel Canada** was recently awarded the contract to design, manufacture and implement an automatic train control system for the first driver-less rail line in Hong Kong. Alcatel's train control systems are in use or are being implemented on more than 500 kilometres of urban rail transit lines world-wide, including Turkey, Malaysia, Hong Kong and China.



Patented Canadian technology can be seen in self-contained, solar powered LED lighting solutions that can be used virtually anywhere on earth.
(Photo: Carmanah Technologies Inc.)

- ▶ **ALSTOM Canada** is currently installing its ATLAS train control system in the UK on the West Coast Main Line — one of the biggest advanced train control projects in the world — and in Spain on the high-speed regional line from Madrid to Barcelona.
- ▶ A Canadian electronic train-control system monitors and guides the operation of the urban rail system at Union Station in Washington, DC.



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- ▶ Since 1971, **CANAC Inc.** has completed over 700 major rail-related projects in more than 60 countries. CANAC's BELTPACK® Locomotive Remote Control device is an international success for its contribution to railyard safety, efficiency and productivity.



By providing equipment in various product designs, rail operations are able to choose the most appropriate component for their needs.

(Photo: H.J. Skelton Canada Ltd)

- ▶ Canadian track equipment can be found in Istanbul's metro system as well as Caracas, Cairo, Stockholm and Santiago — to name a few urban examples. In 2002, C\$50 million of railway track fixtures and fittings were shipped globally.
- ▶ **H.J. Skelton Canada Ltd.** manufactures fixed bumping posts, tie plates, steel cross ties and joint bars, and has sold product to rail lines in Austria, Honk Kong, Japan, the UK and throughout the US.



Canadian capabilities range from leading-edge technology to more traditional production.

(Photo: H.J. Skelton Canada Ltd.)

CANADIAN CAPABILITIES

Companies range in size from large, multinational firms that supply major sub-systems to small manufacturers specializing in niche-market electronic or mechanical devices.

Signalling system manufacturers produce highly technical positive train control systems as well as line-side signals and manual switches for changing the position of the track.

Communications equipment also ranges from basic technology to the latest in global innovations.

Communications products allow the exchange of information by way of general audio communications, by acoustic signalling where trains communicate with each other, as well as by electronic signalling using a system of lights.

Communication systems include:

- ▶ radio communication (traffic, maintenance, emergency)
- ▶ telephones (train, maintenance, PABX)
- ▶ video management (CCTV)
- ▶ passenger information, public address, clock systems

Canadian signalling and train-control products can be found on every continent on earth.

Many Canadian manufacturers have refined their products over more than one-hundred years of production.

(Photo: AMSCO Cast Products (Canada) Inc., AMSCO)



Rail Signalling, Communications and Track Equipment

Track equipment and infrastructure refers to the various parts of track — including track and guard rails — as well as to any equipment that maintains or repairs the track or aids in railway operations.

Major suppliers of rail and track equipment in Canada manufacture a wide variety of products including rail welding materials, turnouts, turnout heaters and blowers, track fastener pads and insulators, ballast ploughs and rail cranes.

Other products include:

- ▶ switches and switch points
- ▶ frogs
- ▶ guard rails and plates
- ▶ crossings



Many companies provide the base parts and components that are in regular demand by rail operations.

(Photo: AMSCO)

CANADIAN EXCELLENCE

Canada is at the forefront of the rapid technological change experienced in the railway manufacturing industry. By investing in research and development and focussing on quality production, Canadian companies have proven to international clients that their products meet and exceed the demands of the marketplace and outperform competitors in the toughest of environments.

Intelligent Transportation Systems (ITS) — the application of computer technologies and electronics to improve safety, efficiency and productivity — are transforming the transportation sector. Current ITS products include communications systems and computerized transit tracking systems. Innovative Canadian companies are piloting new developments in this exciting field.

In the railway lights sector, Canadian companies have pioneered advanced solar power technologies and have produced reliable and durable light systems that can operate anywhere on earth. In more traditional areas of railway operations, Canadian companies continue to provide the necessary infrastructure at the quality their international customers have come to expect.

Much production is well-positioned in key exportable areas, and Canada's relationship with international customers is solid and constantly growing. Companies can supply products to any country in the world through branch offices located abroad.

CANAC's BELTPACK® for remote railyard locomotive control utilises a revolutionary, advanced onboard microprocessor that is programmed with the industry's best train handling practices.

(Photo: CANAC Inc.)



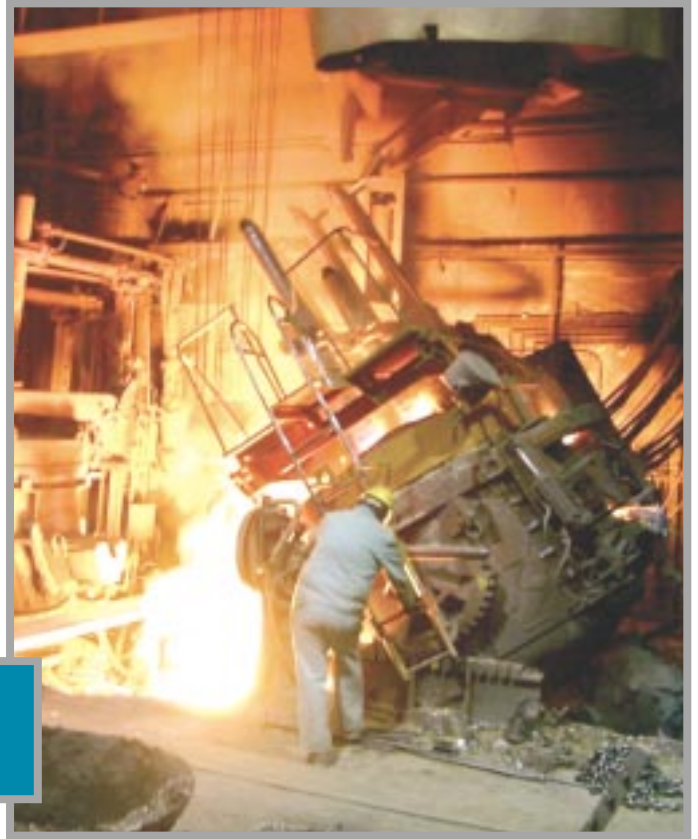
NEED MORE INFORMATION ON CANADA?

► The Canadian Association of Railway Suppliers

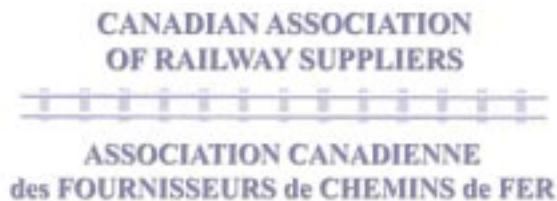
(www.railwaysuppliers.ca) represents companies which supply a broad range of equipment and services to Canadian railways and export markets. As an advocacy group, the Association promotes the economic viability of the rail mode within Canada.

The Canadian government maintains a comprehensive on-line database of firms, products and capabilities at www.strategis.gc.ca/rail.

Canada is home to steel casting furnaces with some of the largest capacities in North America.
(Photo: AMSCO)



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