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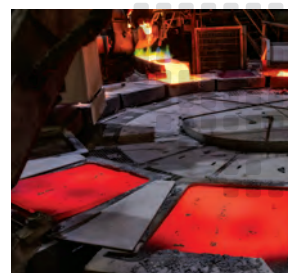
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WELCOME

Welcome to MSTA CANADA's 24th annual Compendium of Canadian Mining Suppliers.

One of our missions at MSTA CANADA is to connect companies in the Mining Supply and Services (MSS) sector with potential buyers, and this publication is one way we accomplish this.

The Compendium is a convenient tool that helps you source Canada's top-quality mining suppliers and demonstrates the remarkable breadth and depth of products and services offered by the MSS sector of Canada.

We designed the Compendium with you, the prospective buyer, in mind, to help you find what you need quickly and easily:

- Use the **subsector index** in the front to find the types of companies you need.
- If you already know the company name, use the **alphabetical listing** in the back.
- Review the **concise, descriptive supplier profiles** with key contact information, for a quick understanding of whether a supplier will fit your needs.

"I encourage you to explore this Compendium and seek out our suppliers so they can work with you to provide the innovative solutions your business requires to be competitive in the market."

In this edition, you will find companies that supply the entire mining spectrum – from early exploration and development, mine design and construction, to production, processing, refining, closure and rehabilitation.

At the time of writing, business activity for most in the MSS sector continues to be vibrant in terms of quoting and purchasing of products and services. Commodity prices have improved but lack clear catalysts to continue upward price momentum. The mergers and acquisitions have had a structural impact on the mining industry in terms of consolidating investment but the early-stage financing activity – a key part of the pipeline – continues to struggle to gain attention by investors.

If uncertainty curtails investment, then the macroeconomic themes are not helping the microeconomics, and in particular the mining and exploration sector. Specifically, the U.S.–China trade dispute, Brexit and the 2020 U.S. election are factors that will be at play over the next year. It is expected that the first two issues will have resolution in 2020 and regardless of the outcomes of all three events, they will all have a long-lasting impact on how world economies interact for the foreseeable future.

That said, there continues to be an industry trend towards more responsible resource extraction. There are three main areas where we see the mining industry looking to improve: by reducing water intensity, by reducing energy intensity and by reducing the environmental footprint of operations. Companies addressing these themes are getting attention in the mining sector regardless of the overall commodity price and investment climate. Underlying these three broad themes is a more inclusive and diverse workforce. Combined, all of these factors will address the key issues for the sector's social licence to operate.

I encourage you to explore this Compendium and seek out our suppliers so they can work with you to provide the innovative solutions your business requires to be competitive in the market.

You can contact our members directly for further information on their products and services or visit our website, www.mstacanada.ca, to learn more. You can also contact any one of our MSTA CANADA staff members, who will always be pleased to assist you in finding the right business partners to fulfil your needs.

Sincerely,

Ryan McEachern

MSTACANADA™
MINING SUPPLIERS TRADE ASSOCIATION



This index is a compilation of profiles briefly describing the activities and capabilities of all members appearing in this year's **MSTA CANADA Compendium of Canadian Mining Suppliers**. For ease of reference, members' profiles are organized under the mining industry subsectors they supply or serve.

ANALYTICAL LABORATORIES & SUPPLIES

Geochemical, ore, process and environmental sample analysis; umpire assay services; laboratory equipment; density measurements; conductivity measurements; susceptibility; IP/resistivity.

- 16 Laval Lab Inc.**
Leading supplier of laboratory and pilot plant equipment

ASSET MANAGEMENT

Mobile and fixed asset management, risk assessments and audits, inspection and condition-based reliability programs, asset tracking, logistic support analysis; life cycle costing; maintenance strategy; outsourcing; cost-benefit analysis; disposal; and renewal.

- 17 Global Physical Asset Management, Inc.**
Innovative Risk Solutions – Driven by Data™

ASSOCIATIONS

Activities of national, provincial and regional trade associations for the Canadian mining industry.

- 18 Canadian Institute of Mining, Metallurgy and Petroleum (CIM)**
Leading society of Canadian minerals, metals and energy professionals
- 18 The Mining Association of Canada (MAC)**
The voice of the Canadian mining industry since 1935
- 19 Prospectors & Developers Association of Canada (PDAC)**
The voice of Canada's mineral exploration and development industry

AUTOMATION & COMMUNICATIONS

Expertise, equipment and technology for process and machinery automation; business intelligence tools; robotics; underground and surface communications; vehicle automation, monitoring and safety.

- 20 Denson Automation Inc.**
Control application solutions for industrial customers and OEMs
- 20 Hepburn Engineering Inc.**
Complete hoisting systems, electrical controls, software and automation
- 21 Northern Light Technologies Inc.**
Best-in-class communications and lighting solutions

BUILDINGS, PERMANENT & PORTABLE

Steel building systems, turnkey camp rental, structures for housing, storage and many other applications.

- 22 Future Buildings**
Quality prefabricated steel buildings at factory-direct prices
- 23 Sprung Structures Ltd.**
High-performance fabric structures

BULK MATERIAL HANDLING EQUIPMENT, SYSTEMS & ENGINEERING SERVICES

Components, equipment, engineering design and consulting services for moving bulk materials, including fabricators of skips, cages, loaders, unloaders, mine-cars, rock breakers, samplers, conveyor systems, rollers, idlers, pulleys, vulcanizers, mixers, filters, speed reducers, motors, stackers, reclaimers, grizzlies, chutes, chute loading systems, slusher hoists, tramp metal detectors, belt rip detection systems, drive control systems, abrasion-resistant piping, castings and gears.

- 24 Industrial Equipment Manufacturing Ltd. (IEM)**
Bulk material handling equipment experts since 1953
- 24 PROMAT Engineering Sales (2003) Inc.**
Trust PROMAT's experience in business
- 25 Shaw Almex Industries**
Leader in conveyor belt vulcanizing and repair equipment

CAMERA SYSTEMS, MOBILE

Thermal night vision cameras, no-drill laptop mounts, remote-control floodlights, side-view cameras, backup cameras, video accident recorders; truck video products; digital incident/accident recording systems; rear-view video systems; submersible lamps; emergency lighting, warning lights, D.O.T. lighting, reversing aids.

- 26 Motion Metrics**
Advanced monitoring solutions for mines and quarries
- 26 PROVIX Inc.**
PROVIX = Now I can see!

CONSULTING GEOLOGISTS & ENGINEERS

Services in geology, project development, ore reserve estimation, feasibility studies; due diligence, project monitoring, failure analysis, engineering for mining, metallurgy, mechanical, civil, electrical, geotechnical; turnkey contracting, research and development.

- 27 CEMI**
Centre for Excellence in Mining Innovation, Helping the mining sector to adopt and commercialize innovations
- 27 Golder Associates Ltd.**
Global organization providing consulting, design and construction services
- 28 RWDI**
You have a vision. We make it possible.
- 28 Terrane Geoscience Inc.**
Experts in structural geology, rock mechanics and geospatial data services

CORPORATE SOCIAL RESPONSIBILITY

Companies have a responsibility to provide principles and performance guidelines that respect all stakeholders equally within the corporate framework, including employees, customers, local communities and shareholders.

- 29 e3 Plus**
A framework for responsible exploration



DRILLING EQUIPMENT & SUPPLIES

Drilling underground and surface: hydraulic, pneumatic, reverse circulation, in-the-hole drills, jumbos, raise-boring equipment; auger drilling rods, drill steel and parts, hammers, diamond and button bits, drill fluids, pump systems, carbide bit refurbishing, seals, wireline accessories.

- 30 Canun International**
Pneumatic rock drills – product quality equals productivity
- 30 DSI Underground**
Market-leading manufacturer of integrated mining supply products
- 31 Dimatec Inc.**
Diamond drilling tools and precision machining
- 32 Foremost**
Mining and mineral exploration drills, tooling and accessories
- 33 Multi-Power Products Ltd.**
Drilling equipment manufacturer, sales and service
- 33 PHQ Global**
Canadian manufacturer of pneumatic mining and exploration equipment

ELECTRIC POWER EQUIPMENT

Electrical components and management tools, power resistors, power cables, power cable couplers, ground fault protection systems, electric drive raise climbers, ruggedized equipment, starters, high voltage equipment, switchgear, electric generators, batteries.

- 34 Adria Power Systems**
A premier manufacturer of custom-engineered electrical equipment designed for use in mining
- 34 Mine Cable Services Corporation**
Cable connection systems, repair equipment and handling systems

ENVIRONMENTAL EQUIPMENT & SERVICES

Information, professional services and technologies covering environmental science, planning and engineering for mines and processing; treatment of sewage and acid mine effluents; mine closure services, engine emissions control, water treatment equipment and services, wastewater treatment, environmentally sound exploration practices; portable storage systems; liquid logistics; onsite storage tanks for water and fuel; pest control; secondary containment for hazardous fluids both military and commercial.

- 36 Cypher Environmental Ltd.**
Solutions for dust and haul-road construction problems
- 36 ECO Technologies**
Dredging for mine tailings and industrial lagoons
- 37 Titan Environmental Containment**
Specializing in high quality geosynthetics, containment systems, and specialty civil engineering
- 38 Veolia North America**
Resourcing the world

EQUIPMENT MAINTENANCE & REPAIR

Solutions to unique maintenance and repair problems, filtration, rebuilds, portable align boring machines, abrasion-resistant steel, blades, wear studs, plastic components, abrasion and corrosion-resistant coatings, rewinds and repairs to motors, repairs and replacements for bushings, wear plate impact pads and lining materials, jacks, welding supplies, ground engaging tools, tires.

- 40 Eutectic Canada Inc.**
Cost-effective repair and maintenance solutions
- 41 JKC Equipment**
Your OTR tire repair specialist
- 42 Normac Adhesive Products Inc.**
The protection of high-performance urethane coating systems
- 42 Valley Blades Limited**
Replacement wearing edges for earth and snow removal equipment

EXPORT & IMPORT SERVICES

Broker services, identification, development and execution of commercial contracts, management, expediting and transportation logistics, advisory services.

- 43 Berba Mining Business Inc.**
Import-export experts to and from the Middle East

FINANCE CONSULTANTS & SERVICES

Services including financing, banking, tariffs, overseas fees, e-commerce trade, international investments and loans, taxes, accounting or tax preparation software, contract support and customs documentation.

- 44 Export Development Canada**
Helping Canadian mining suppliers go, grow and succeed internationally

GEOPHYSICAL INSTRUMENTATION

Airborne, surface and borehole instrumentation for mineral exploration and other applications, including electromagnetics, magnetics, magnetotellurics, induced polarization, seismic surveying.

- 45 GEM Systems Advanced Magnetometers**
Overhauser, potassium and proton precession magnetometer technologies
- 45 Phoenix Geophysics Ltd.**
Save money – focus your drilling with geophysics
- 46 Terraplus**
Your source for geophysical instruments

GEOPHYSICAL SURVEYS & CONSULTING

Ground, airborne and borehole geophysical survey contractors and consultants for mineral exploration and mapping; compilation, processing, enhancement and interpretation of data; software for geophysical interpretation.

- 47 Crone Geophysics & Exploration Ltd.**
Explore deeper and smarter with 3D Pulse EM

GROUND CONTROL EQUIPMENT & SUPPLIES

Equipment, supplies and applicators for grouting, shotcrete, abrasion-resistant piping, paste backfill, rock bolting, seismic monitoring and geotechnical instrumentation.

- 49 ConMICO Inc.**
Ground support systems you can build on
- 49 DSI Underground**
Market-leading manufacturer of integrated mining supply products

HEALTH & SAFETY

Health and safety supplies, footwear, cap lamps, communications and charging systems, protection systems integration, warning systems, worker protection systems and components; health risk management and environmental disease detection

- 52 Horne Conveyance Safety Ltd.**
Advanced engineered safety solutions and systems
- 53 Northern Light Technologies Inc.**
Best-in-class communications and lighting solutions

HOISTING EQUIPMENT & SERVICES

Services for the design, supply, upgrading and refurbishment of mine hoists, rack-and-pinion hoists, winches, tuggers, sheaves, slushers, wire rope and wire rope testing equipment.

- 54 Hepburn Engineering Inc.**
Complete hoisting systems, electrical controls, software and automation
- 55 Timberland Equipment Limited**
Providing custom solutions for mine rescue, hoists, sheaves and rope tensioning



HYDRAULIC COMPONENTS & ACCESSORIES

Fluid and filtration products.

- 56 Generation 2 Filtration**
One-micron filtration prolonging equipment and oil life

MINE SITE CONSTRUCTION

Various equipment and components, including wood, steel and high-density polyethylene construction products, corrugated metal construction, land surveying.

- 58 AIL MINING**
Advanced engineering solutions in crossings and retaining walls

MINERAL PROCESSING EQUIPMENT & SUPPLIES

Crushers and parts, grinders, ore-processing plants, electrical motors, grinding rods, mill liners, process heating equipment, centrifugal concentrators, wet and dry process filtration, electrolytic cells, process control samplers, retorts, grizzlies, screens, pumps, pump parts, castings and assemblies, clarifiers, samplers, mixers, dryers, filters, agglomerators, cyclones, gears, ceramic corrosion-resistant lining systems, rubber products such as abrasion-resistant liners, corrosion control coatings, pinch valves, hoses and expansion joints, rubber components, fibreglass reinforced parts such as pipe, grating and solvent extraction systems, abrasion-resistant piping, remanufactured and used equipment.

- 59 AFX Mixing & Pumping Technologies**
Keeping fluid in motion
- 59 American Biltrite Ltd.**
Premium abrasion-resistant rubber for total protection
- 60 Boundary Equipment Co. Ltd.**
Engineered wear parts for mining, material handling, smelting
- 60 Canadian Wear Technologies**
Wear solutions for critical and severe applications
- 61 Fabrithane Industrial Products Inc.**
Manufacturer of cast-urethane wear parts

- 62 Heath & Sherwood**
Sampling systems, online XRF analysis, Tuyère line products
- 63 McCloskey International Ltd.**
Manufacturers of portable crushers, screeners and conveyors
- 63 Polycorp Ltd.**
Engineered rubber liners for all grinding mill applications
- 64 Precisioneering DKG Corp.**
Precision-engineered, corrosion-proof fibreglass products for mineral processing
- 64 Tega Industries Canada Inc.**
Total solutions for wear and abrasion when separating ores
- 65 Tramac Equipment Ltd.**
Stationary rock breaker systems and hydraulic attachments
- 66 Westpro Machinery Inc.**
Your process technology partner since 1985

MINERAL PROCESSING PUMPS, PIPES & VALVES

Abrasion-resistant pipe, high-density polyethylene pipe and fittings.

- 67 HydroTech Mining Inc.**
The new wave in mine dewatering
- 67 Technosub**
Fast and effective mining pumps and dewatering solutions

MINERAL PROCESSING SERVICES

Process engineering; mineral processing, hydrometallurgical, pyrometallurgical and refining design and testing; crusher refurbishment; flowsheet development; pilot plants; new, remanufactured and custom-designed equipment for mineral processing.

- 68 Coding Metrology Inc.**
Measurement and metrology automation
- 68 COREM**
World-class expertise in mineral processing

MINING ENGINEERING & CONTRACTING

Contract services for shaft sinking, raise boring, mine development and mining; engineering services, including mining, metallurgical, mechanical, civil, electrical and geotechnical; turnkey contracting; ground control; construction services; surveying.

- 70 Progesys Inc.**
Industrial plant commissioning, project management and engineering services

MINING INSTRUMENTATION

Control and monitoring instrumentation, airflow monitoring; laser alignment, cavity monitoring, tramp metal detection, drill hole surveying, gas and environmental monitoring, geotechnical monitoring.

- 71 Carlson Software**
Complete mine site solutions: from exploration to reclamation
- 72 SightPower Inc.**
Underground data-modelling systems and technology solutions

PACKAGING SERVICES

Services including design and manufacturing of packaging, crating export packaging, tracking, vacuum sealing cargo, packaging dangerous goods, loading containers, and project management and warehousing.

- 74 Topax Protektive Packaging**
Protecting assets from transportation and storage hazards

SMELTING & REFINING EQUIPMENT & SERVICES

Process consultants; copper electro-winning equipment; material handling equipment; automation services; insulators for hydrometallurgical refining industry, Tuyère punchers; insulators.

- 75 DSI Underground**
Market-leading manufacturer of integrated mining supply products

SOFTWARE

Management, processing, analysis, display and presentation of exploration, mining, geomechanics, process and environmental data; ore reserve calculations; mine-wide information systems, process control and optimization; mine planning, GIS; training; laboratory information systems; hardware and business software, information technology systems.

- 76 Minerva Intelligence**
Knowledge engineering. AI within reason.
- 76 Promine**
Enhance your operations, optimize your resources
- 77 ThreeDify Inc.**
Next generation mining software solutions

SURFACE MOBILE EQUIPMENT & COMPONENTS

New and used surface mining machinery, dumpers, pins and bushings, engine cooling fans, climate control systems, haulers, hydraulic seals, pistons, pumps and bearings, wheels, rims, tires, tire handlers and manipulators, machinery parts and attachments, braking resistors, brake systems, clutch systems, cable reelers, dozer blades, buckets; gears; used and reconditioned equipment.

- 79 Boundary Equipment Co. Ltd.**
Engineered wear parts for mining, material handling, smelting
- 79 Mobile Parts Inc.**
Your parts and brake specialist
- 80 Reliable Wheel Products Ltd.**
Making maintenance of heavy equipment easy and safe
- 80 RIMEX**
Building better wheels
- 81 Valley Blades Limited**
Replacement wearing edges for earth and snow removal equipment
- 82 Weldco-Beales Manufacturing (WBM)**
Specialists in attachment design and manufacturing



TRANSPORTATION & LOGISTICS

Service providers services including customs documentation, shipping, material handling, document preparation and cargo tracking, logistics software, export packaging, logistics, transportation, supply chain management, freight forwarding, third-party contract charters for air/ sea, transportation management, risk management and heavy lift.

- 83 **Axxess International Inc.**
Solving your worldwide importing and exporting needs
- 83 **Cole International Inc.**
The right solutions for your global logistics needs
- 84 **Gillespie-Munro Inc.**
Innovative international freight forwarding solutions
- 84 **Manitoulin Group of Companies**
Strengthen your supply chain with the Manitoulin network

UNDERGROUND VEHICLES, EQUIPMENT & COMPONENTS

New and used underground mining equipment; diesel engines, wheels, rims, tires, tire manipulators, rack-and-pinion hoists, machinery parts and attachments, including powertrain components, buckets, tanks, hydraulic seals, gears, castings, braking systems, wear products, electrical and automation systems, mobile service equipment.

- 86 **BPT Components & Parts Inc.**
Clark parts and components for underground mining equipment
- 87 **L&M Powertrain Parts**
Powertrain parts, the drive to serve you better
- 87 **MacLean Engineering**
Mining solutions
- 88 **Mobile Parts Inc.**
Your parts and brake specialist
- 89 **Nelmaco Eastern Ltd.**
Manufacturer of JOY air and electric slusher units
- 89 **Trojan Tire Inc.**
Reuse it and save!

VENTILATION EQUIPMENT & COMPONENTS

Ventilation fans; flexible ducting and accessories; airflow metering systems, gas sensors, venting systems.

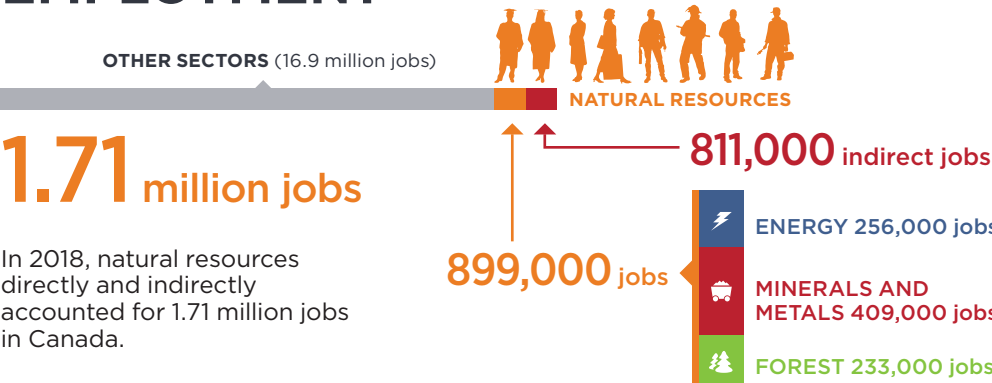
- 90 **ABC Ventilation Systems**
Customized ventilation systems to fit your underground needs.
- 90 **DSI Underground**
Market-leading manufacturer of integrated mining supply products
- 91 **G+ Industrial Plastics**
Mine ventilation performance
- 92 **Rocvent Inc.**
Engineered ventilation ducting of all types

GROSS DOMESTIC PRODUCT



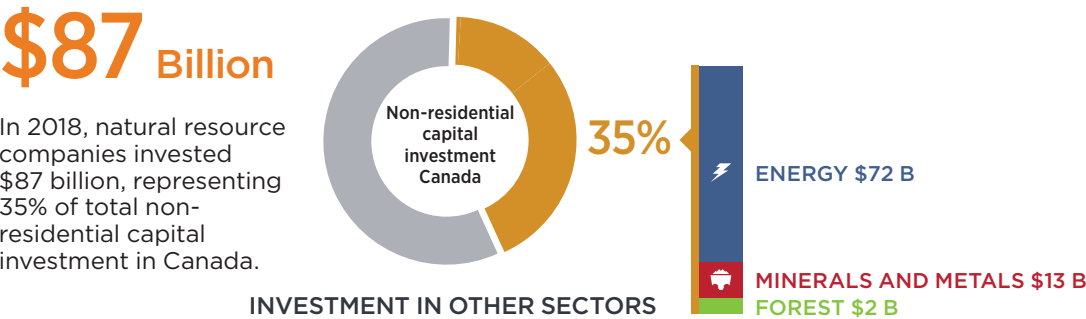
Data Source: Natural Resources Canada estimates, based on Statistics Canada data (National Accounts)

EMPLOYMENT



Data Source: Natural Resources Canada estimates, based on Statistics Canada data (National Accounts)

CAPITAL EXPENDITURE



Data Source: Natural Resources Canada estimates, based on Statistics Canada data (National Accounts)



Laval Lab Inc.

Laval Lab Inc. is the leading Canadian supplier of laboratory equipment. Laval Lab's easy-to-use website displays the company's complete line available for delivery around the world. Product lines include sample preparation (crushers, grinders, pulverizers), particle-size analysis (sieve shakers, particle-size analyzers, sieves), zeta potential, sample division,

XRF-sample preparation platinum labware, drying ovens and water testing instruments. Highly experienced staff takes pride in generating creative solutions to help clients increase efficiency and accuracy in laboratory analyses. For a wide range of high-quality products at a great price, visit Laval Lab online.

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Analytical Laboratory Equipment



Global Physical Asset Management, Inc.

Global Physical Asset Management, Inc. We specialize in asset management of large-scale power transmission equipment for heavy industry such as mineral processing, cement, and pulp/paper. At Global PAM we are experts in third party engineering, design, manufacture, installation, inspection, and maintenance of power transmissions and structural components for mills, kilns, driers, and crushers. We can provide a complete non-destructive test of the integrity of the mill gear teeth in accordance with ASTM E2905,

for macro-pitting and cracking. We also provide an onsite failure analysis as per AGMA 1010-F14 of failure modes present, if any, their severity, and how these might impact the operational function of the mill. Cleaning and inspection are completed in under 9 hours; saving valuable downtime and increasing production revenue. The final report provides a concise insight for the maintenance team and insurance industry on the level of exposure being presented by any operation relating to girth gear teeth. All of this completed in under 10 hours per mill gear.

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ECONOMIC CONTRIBUTION FAST FACT: The mining industry has contributed greatly to Canada's economic strength. The industry directly employs 426,000 workers across the country in mineral extraction, smelting, fabrication and manufacturing, and indirectly employs an additional 208,000. Proportionally, the mining industry is also the largest private sector employer of Indigenous peoples and provided over 16,500 jobs to community members in 2017. In 2017, the minerals sector directly and indirectly contributed \$97 billion, or 5%, to Canada's total nominal GDP.

- From: Facts & Figures 2018, The Mining Association of Canada



Canadian Institute of Mining, Metallurgy and Petroleum (CIM)

The Canadian Institute of Mining, Metallurgy and Petroleum (CIM) is the leading technical society of Canadian mining, minerals, metals and energy industry professionals. With approximately 10,000 individual members, 150 corporate members, 10 technical interest groups and more than 33 branches, it is the foremost voice for leading industry expertise. Through technical meetings, world-class events, CIM Magazine, the CIM Journal and the OneMine online global mining and minerals library, CIM is a vital conduit for the creation, curation and delivery of the

latest information on industry development, innovations, projects and best practices. Its technical leadership in standards definitions has been highly acclaimed. Members also gain access to an extensive and influential network through the annual CIM Convention, special-topic and international conferences, and hundreds of cross-country meetings, events and lectures. Extend your network and help shape the future of the industry by joining this valuable community of decision-makers now. Visit the website listed here.

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The Mining Association of Canada (MAC)

The Mining Association of Canada (MAC) is the national association of the Canadian mining industry – comprising companies engaged in mineral exploration, mining, smelting and refining. Member companies account for the majority of Canada’s output of metals and major industrial materials. MAC’s mission is to promote, through the collective action of members, the growth and development of Canada’s mining and mineral processing industry for the benefit of all Canadians. An important

function is to work closely with the federal government to improve the business and regulatory climate in Canada. In 2004, MAC launched Towards Sustainable Mining, an award-winning stewardship initiative focused on improving the mining industry’s social, environmental and economic performance. The government, the public and the association’s diverse group of stakeholders recognize MAC as a source of reliable information and valuable consultation on matters concerning the industry and its place in Canadian society.

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Prospectors & Developers Association of Canada (PDAC)

The Prospectors & Developers Association of Canada (PDAC) is the leading voice of the mineral exploration and development community. With over 7,500 members around the world, PDAC’s work centres on supporting a competitive, responsible mineral sector.

PDAC is known worldwide for its annual PDAC Convention – the premier international event for the industry – that has attracted over 25,000 people from 135 countries in recent years and will next be held March 1-4, 2020 in Toronto. Please visit www.pdac.ca.

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www.pdac.ca



PROSPECTORS & DEVELOPERS ASSOCIATION OF CANADA
ASSOCIATION CANADIENNE DES PROSPECTEURS ET ENTREPRENEURS

Mining Exploration Camps and Diamond Mine Aerial



Denson Automation Inc.

Denson Automation has more than 30 years' experience in designing and manufacturing complete integrated control systems in the heavy industrial area and offers technological capabilities and expertise for all levels of automation and control systems panels for industrial customers and OEMs. Denson provides underground and open-pit mining electrical and control containers for typical applications in new and existing mines, including control of mineral conveyors, crusher lines, pumps and blowers, as well as automation and modernization,

including electrical and control engineering services and local custom control panels for pumps, blowers, lighting and distribution. PLC and communication are programmed and tested at the factory for fast startup and commissioning, and its engineering and manufacturing facility means reduced delivery lead time, no additional overhead cost, flexibility and faster response to your special requests. Denson works in several languages in Canada, the U.S. and throughout Latin America. For full details, visit the website.

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www.densonautomation.ca



Hepburn Engineering Inc.



Hepburn Ergonomic Hoist Control Console

Hepburn Engineering Inc. (HEI) designs and supplies complete mine hoisting systems with fully integrated electrical controls, digital drives, digital safety monitors, PLC-based operating systems and hoist management software for automated hoisting. The Hepburn Hoist Manager is the most advanced, comprehensive and user-friendly hoist-operating and management system available today. It incorporates advanced

fault logging and diagnostics and can be configured to control hoists from a remote location. The new Hepburn Hoist Reporter software provides mine management with detailed, real-time production reporting, hoist status and searchable fault history using standard web browsers. Through Hepburn Hoist Care, Hepburn engineers can remotely access the hoist controllers and perform remote diagnostics to solve problems quickly. Hepburn electrical controls and Hoist Manager can be retrofitted to existing hoisting plants, as well as incorporated in new hoists to improve automation, performance, productivity, safety and maintenance. See the Hepburn company profile under Hoisting Equipment.

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Northern Light Technologies Inc.

Founded in 1984, **Northern Light Technologies (NLT)** delivers innovative technologies to mines and tunnels with a focus on safety and productivity. Through rugged networking, Wi-Fi, and software-based solutions, NLT makes mines and other operations more efficient, safe and profitable. Through more connected mines, NLT can offer powerful applications such as personnel and asset tracking, voice/text communication, video and security, environmental monitoring, automation, real-time access to equipment telemetry data, and teleoperations of mining and

support equipment. NLT excels at turnkey design, manufacturing, fit-for-purpose deployment and support of scalable connectivity technologies. Northern Light® cap lamps are designed for maximum light output, reliability and comfort while providing secondary power options for RFID and Wi-Fi tags, Collision Awareness Electronics and other IoT technology. Included in the lineup are the award-winning cordless Polaris, the tag-enabled Genesis and Eclipse, and the agnostic tag-ready Eagle and Falcon. To improve the way your mine sees, communicates, and operates, call NLT today!

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N-Connex from NLT Technologies Inc.



Future Buildings

Future Buildings has more than 30 years of experience in manufacturing prefabricated steel buildings of every size and complexity. The company has grown to include the foremost engineering, production and customer service professionals in the industry. It has assisted thousands of consumers in expanding and improving their businesses by being able to work quickly and efficiently to deliver custom steel building projects on time and on budget. Future Buildings stands up to the tests of time, wear and

weather in the face of fierce winds, heavy snow loads and extreme storm conditions, including hurricanes. When you choose a steel building made by Future Buildings, it is backed with a 30-year rust perforation warranty and is compliant with Canadian Welding Bureau and CAN/CSA A660 certification guidelines to guarantee you quality workmanship at factory-direct prices. Also visit the company’s straight wall division at the Toro Steel Buildings website shown here.

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CANADIAN MINING FAST FACT: There is a natural synergy between mining and clean technology. Raw materials are transformed into technology that, having gone full circle, assists mining operations in reducing environmental footprints and enhancing efficiency and reliability. These same raw materials also enable the world to transition to a low carbon future.

- From: Facts & Figures 2018, The Mining Association of Canada

Sprung Structures Ltd.



Sprung Structures is the global leader in the design and manufacture of engineered tension membrane structures utilized by the mining industry for immediate relocatable building solutions. Sprung invented the stressed membrane structure in the late 1970s in response to the need for a rapidly deployable building system that could be erected under rigid construction timelines and meet significant environmental loadings in remote areas. Since then, Sprung has erected more than 12,000 structures in 100 countries. Applications include onsite warehousing, haul

truck maintenance, equipment storage, dining facilities, milling operations, bulk storage, ore processing and more. Sprung’s modular rust-free aluminum substructure is easily accommodated in shipping containers for international transport, and a worldwide network of structural engineers and strategic alliances help ensure every project exceeds expectations. Structures are available in widths of 30 ft. to 200 ft. by any length, and optional fibreglass insulation packages are available. Lease or purchase. Proven technology worldwide.

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Industrial Equipment Manufacturing Ltd. (IEM)

Industrial Equipment Manufacturing Ltd. (IEM) has engineered and manufactured bulk material handling equipment for mining and other heavy-duty industries for more than 55 years. At its plant in Surrey, British Columbia, onsite design and manufacturing allows for strict quality and production control, guaranteeing the highest standard of product quality and reliability. Close proximity to Pacific seaports allows IEM to readily ship around the world. IEM equipment and systems convey bulk materials used in mining, port transfer and loading facilities, pulp and

paper mills, sawmills, cement and aggregate plants, grain elevators and similar industries. IEM products include rotary batch log debarkers, log infeed and outfeed transfer decks, apron feeders, belt feeders, belt conveyors, ball feeders with distribution conveyors, high-lift conveyors, bucket elevators and specialty pulley and belt cleaners. Standardized product designs allow for fast track availability and modifications, and custom engineering, design and manufacturing are also available for special needs projects.

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PROMAT Engineering Sales (2003) Inc.

PROMAT is dedicated to providing full service with its heavy-duty sector focused on custom bulk material handling equipment and systems for the cement, steel and mining industries. PROMAT offers a full line of superior material handling products, integrated into complete system designs, ranging from dust-free retractable loading spouts to silo discharging and process feeding systems. Specializing in customized quicklime slaking systems to produce excellent lime slurries, and in unsurpassed flocculent wetting systems, PROMAT systems typically include

silos or bulk bag unloaders, patented wetting and slaking components, and dedicated pumping systems, all backed by proven design, equipment field service, and equipment installation supervision and commissioning. To provide highest-quality customer service and support, PROMAT maintains a fully computerized engineering department that leverages the most current technologies, communicating accurate designs that ensure a smooth, seamless integration of PROMAT expertise into your important global projects while meeting all of your application needs.

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Shaw Almex Industries

Shaw Almex Industries is not only an industry leader in the design and manufacture of vulcanizers and presses for splicing and fabrication of all types of conveyor belting. Our offerings are constantly expanding to now include idlers and other conveyor components, splicing tools and repair materials from Fusions Systems and now, conveyor belt steering and ATEX certified

equipment like conveyor scales and portable conveyors through our acquisition of EMSYS GmbH of Germany. Almex Global Services offers onsite expertise from consulting, to belt installation, quality assurance, and dust suppression systems that reduce costs, improve productivity, and create a safer, cleaner site, ultimately improving productivity.

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Shaw Almex Vulcanizer Pro 100



Motion Metrics



Motion Metrics is a market-leading Canadian technology company that leverages its expertise in artificial intelligence and computer vision to improve safety, productivity and efficiency at mines and quarries around the world. Motion Metrics brings together an experienced team of machine learning scientists, electrical and mechanical engineers, software architects, and technical mining professionals to solve the mining industry's toughest challenges. The camera- and sensor-based solutions include missing tooth detection, tooth wear monitoring, particle size analysis and payload monitoring. All networked equipment interfaces with our web-based, user-friendly data analysis platform – MetricsManager™ Pro. Motion Metrics systems are trusted by the world's largest mining companies and have been installed across six continents. For more information, please visit motionmetrics.com.

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PROVIX Inc.

Provix supplies advanced video, lighting, RFID and remote control systems that offer enhanced productivity and increased safety for surface and underground operations. Provix can design, build, install and support any type of video camera system, including equipment-based video for remote operation in conjunction with cost-effective remote controls for any type of equipment. Video systems include both cabled and wireless systems for drilling, mucking, hauling, bolting, tramming and loading pocket and chute operations. Video systems can be set up for both local and network viewing, as well as wireless in-cab viewing by operators. Provix supplies and integrates rugged LED scene and equipment lighting from the world's best manufacturers, including Hella, Nordic, VisionX and others. Provix provides RFID proximity detection and radar-based collision avoidance systems that increase safety while providing enhanced productivity, and its solutions are incorporated by many OEM mining suppliers. Contact Provix to discuss your requirements.

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CEMI

CEMI's objective is to help the mining sector achieve step-change improvement in performance by accelerating the adoption of innovations in mines and by increasing the innovation capacity of the mining service companies that deliver techniques and technologies to the industry. There is no shortage of good ideas, or partially developed solutions, but the process of converting these into commercially viable products and services that mining companies can adopt, is slow and difficult. The need for mines to achieve step-change improvement in operational performance is urgent. We are finding ways to make this happen more quickly and efficiently by Accelerating the commercialization of technical solutions to be market ready – **Viable Products & Services;** Managing networks of technical solution providers and innovative SMEs – **Sector Collaboration;** Systematically targeting issues relevant to the global mining industry as well as regional and national ones – **SME Export Market;** and Searching globally for solutions to locally critical operational bottleneck – **Industry-Identified Priorities.** Our services are designed to bridge the gap between a challenge and a solution.

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Golder Associates Ltd.

Global employee-owned organization providing specialized consulting, design and construction services. From pre-feasibility to mine closure, **Golder** thrives on the challenges that mining presents. As a leading provider of advice and solutions, clients call on Golder Mining for truly integrated engineering and environmental services. Our team of over than 1,700 professionals in Mine Water, Mine Waste, Mine Environment, Mine Infrastructure, Mine Engineering & Stability, and Geology have a long history of delivering practical solutions to our mining clients across the world. Golder is trusted for our dedication to technical excellence. We deliver the high-quality results our clients not only expect, but require for the safe development, operation and closure of mining projects in all climates, ground conditions and environments. Experience the Golder difference!

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RWDI

RWDI is an internationally recognized specialty engineering consulting firm that focuses on the science of buildings, structures and the environment. With over 20 offices worldwide, RWDI uses a variety of engineering, computing and scientific capabilities to help clients in the mining and aggregates industry firms obtain environmental approvals, achieve regulatory compliance and improve the bottom line. Our engineers and scientists use advanced modelling and analysis to mitigate environmental impacts – from noise to dust to greenhouse gas emissions –

while conserving energy and minimizing delays. As part of their team, we assist clients to help them assess environmental impacts at the planning stage, conduct monitoring and manage operational issues. Our specialists have extensive experience with projects in both urban and remote locations, including sites with extreme climatic conditions. Clients benefit from our unmatched combination of technical expertise, industry experience and regulatory knowledge – all powered by a collaborative culture that earns trust and delivers results.

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Terrane Geoscience Inc.

Terrane Geoscience Inc. is an internationally recognized geological and engineering consulting company that specializes in structural geology, rock mechanics engineering, mineral exploration, and geospatial data collection, interpretation and analysis. The professional team at Terrane Geoscience Inc. has a combined global experience of 75 years specializing in mineral exploration and operations for underground and open pit mine development, energy and utilities infrastructure (i.e. dams, penstock, etc.), transportation infrastructure design, inspections, rehabilitation/restoration projects. Terrane's specialized personnel

communicate and work closely with clients to provide practical, technical and effective ideas/solutions to project challenges. Terrane has the unique ability to innovate and adapt/implement new advanced technologies such as borehole televiewer (optical and acoustic) logging equipment for structural and geotechnical interpretations; UAV (Drones) for orthoimagery, magnetometer; and terrestrial lidar tools. Terrane's established client-relationships include NewmontGoldcorp, Teck Resources Limited, Kinross, Osisko Mining, Osisko Metals, Semafo, New Brunswick Transportation, Triumph Gold, Puget Sound Energy and Anaconda.

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TERRANE
GEOSCIENCE INC.

e3 Plus

PDAC – e3 Plus: A Framework for Responsible Exploration was developed by the Prospectors & Developers Association of Canada (PDAC) to help companies exploring for minerals improve their social, environmental, and health and safety performance. The framework was compiled through extensive consultation with industry representatives, NGOs, academia, government

and communities. e3 Plus is built around eight principles for responsible exploration and includes guidance notes and toolkits with comprehensive information on social responsibility, environmental stewardship, community engagement, and health and safety. e3 Plus is a free online information resource accessible through the PDAC website.

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8

PRINCIPLES FOR RESPONSIBLE EXPLORATION

- ❶ Adopt Responsible Governance and Management
- ❷ Apply Ethical Business Practices
- ❸ Respect Human Rights
- ❹ Commit to Project Due Diligence and Risk Assessment
- ❺ Engage Host Communities and Other Affected and Interested Parties
- ❻ Contribute to Community Development and Social Wellbeing
- ❼ Protect the Environment
- ❽ Safeguard the Health and Safety of Workers and the Local Population



Canun International



Pneumatic Rock Drills by Canun

Canadian-owned **Canun International** of Val Caron, in Greater Sudbury, Ontario, designs and manufactures pneumatic rock drills for the mining, quarrying (granite) and construction industries. Products include Canun Airleg, Stoper, Sinkers and Quarry

drills, Canun service parts, and the Canun Canpush Screen Pusher. Canun products are manufactured in Canada on modern CNC equipment, which performs all milling, turning and drilling operations. Super-precision grinding provides the high-tolerance finishes and accurate fits that are so critical for today’s mining machines. Every part Canun produces is inspected for consistency and interchangeability. Canun is continually applying new or emerging technology to develop and strengthen its ability to meet market needs. Canun International is ISO 9001:2015 registered.

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DSI Underground

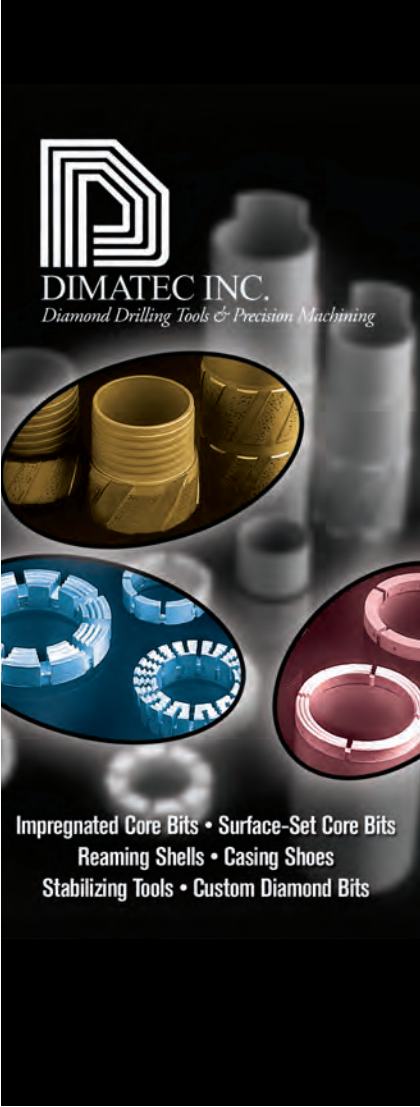
DSI Underground Canada is the leading manufacturer and supplier of specialist ground support products to the underground industry. Its manufacturing and distribution centres are located across the country at the following locations:

- Saskatoon, SK (Corporate office & Manufacturing)
- Sudbury, ON (Administration office & Manufacturing)
- Sturgeon Falls, ON (Manufacturing)
- Rouyn-Noranda, QC (Distribution)
- Val-d’Or, QC (Distribution)

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Dimatec Inc.



Dimatec Inc., since the company’s formation in 1988, has specialized in the manufacturing of impregnated, surface-set, TSP-set and PDC-set core bits, as well as other related metal-bond “down the hole” tools primarily used by the mineral exploration and geotechnical survey industries. Dimatec uses only the highest quality raw materials and state-of-the-art processing technology to manufacture its products, which have been designed for use in all drilling conditions. Dimatec’s objective is to meet and exceed its customers’ requirements for high performance in-hole drilling equipment. This objective is achieved through an experienced workforce and an ongoing commitment to R&D. Dimatec has implemented and maintains a registered quality management system that is compliant with the ISO 9001:2008 standard and the ISO/TS 29001:2010 specification. Dimatec’s quality objective, through continuous improvement and product development, is to maintain its position as the recognized standard of quality, value and service.

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Foremost designs and manufactures a diverse line of products for mining, water well, construction, and oil and gas applications – specializing in drill rigs, off-road vehicles, reverse circulation drill pipes, drill rod handlers, hydraulic top drives and drill consumables. Mineral Exploration Series rigs, manufactured with either a track or large tire undercarriage, are designed to minimize ground pressure and to climb extremely steep grades and side slopes. Foremost’s popular Dual Rotary Drill provides superior overburden drilling where casing

hammers and underreamers have been unsuccessful. Cushion Subs protect and prolong top drive bearings, rotary drive, mast assemblies and gear life against both torsional and axial vibrations and shock loading in moderate and extreme drilling conditions. Replacing a friction or non-rotating bushing on the deck of a blast-hole drill without drill modifications, the Rotary Deck Bushing provides stabilization, reduces drill vibrations and friction to drill string components and permits higher rotational speed.

CANADIAN MINING FAST FACT: Mining’s direct contribution to 2017 real GDP totaled \$58.4 Billion, a 1.4% Increase year-over-year, while the sector’s contribution to nominal GDP totaled \$72 billion, an 11% increase year-over-year.

– From: Facts & Figures 2018, The Mining Association of Canada

Multi-Power Products Ltd.

Multi-Power Products Ltd. is Canada’s most versatile manufacturer of turnkey drill rig systems, components and ancillary equipment, with a present product offering that ranges from heli-portable Pioneer auger and Discovery core drills to its large Explorer reverse-circulation track systems. Water supply pumps, foot clamps and chucks, heli-portable air/booster compressors, cyclones and drill heads are just some of the items on its ancillary equipment list. While primarily catering to the mineral exploration market, Multi-Power has expanded its product range to service the geotechnical,

geothermal, geophysical and seismic industries worldwide. Aided by sophisticated 3D engineering software and computer simulation, Multi-Power’s experienced team of project managers and engineers provides integrated solutions tailored to your most demanding specifications. With its commitment to continually improving its products to meet its customers’ ever-changing needs, Multi-Power explores the latest technologies and incorporates them in equipment that delivers enhanced performance, efficiency and safety.

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PHQ Global

PHQ Global has been providing pneumatic drill carriers and a wide range of handheld, drifter and diamond-coring drills to the mining and exploration industry since 1985. Quality-certified to ISO 9001:2015, PHQ assembles all machines in Canada. Handheld drills include PHQ250 and PHQ230 jacklegs, stopers, sinkers, and pusher-feed legs, as well as JOY67 mounted quarry drills, screen pushers and football-type lubricators. Long Tom drill jumbos and PHQ3000LHH drill carriers mounting long-hole setups include PHQ36-IR and PHQBBC120 drifter drills, screw

feeds, centralizers, remote controls and lubricators for blast-hole drilling. Diamond coring drills include JKS Winkie and Packsack gasoline-powered portable surface drills and JKS Bazooka, VEG and VAG pneumatic-powered underground drills. PHQ also supplies column bars, column clamps, mine jacks, lifting and lowering tools, high-pressure water pumps, mufflers, bits, rods and accessories for diamond drills. In addition, PHQ supplies anti-vibration control handles reducing transmission of harmful vibration from jackleg drills by 60 percent.

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Adria Power Systems



Adria Power Systems. is a premier manufacturer of custom-engineered electrical equipment designed for use in mining and industrial applications everywhere. The product list includes electrical substations, portable and mobile, for underground and open pit mines, industrial and mining switchgear, junction

boxes, dewatering substations, customized VFD skids, E-Houses as well as control panels, only to name few. ADRIA's experienced engineering staff provides customers with solutions that are customized to their needs at a very competitive price. ADRIA's customer base extends beyond Québec to the rest of Canada and the world. These long-term customers are a testament to ADRIA's dedication to quality service, its effective and reliable solutions, as well as the ingenuity of its management and engineering team. ADRIA is a partner you can trust.

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Mine Cable Services Corporation

Mine Cable Services Corporation (MCS) designs and manufactures medium voltage cable connection systems, repair equipment and handling systems, offering a full range of cable couplers, including 5 kV, 8 kV, 15 kV and 25 kV, compatible with all couplers of North American design. MCS junction boxes and cable posi-clamp systems have been designed to meet the rigours of mine site environments, including dust and moisture. MCS' Cable Vulcanizing Systems include portable, hydraulic and oven repair equipment with

the use of Teflon-coated cable moulds or pressure cooking tapes to produce flexible and waterproof cable repairs. MCS also provides a complete line of cable repair materials, including Neoprene, Hypalon and TPU jacketing material. Cable handling and safety equipment consists of cable reelers, stands, safety locks, crossover systems and strain relief clamps. With facilities in Canada and a network of distributors in Latin America, Europe and Australia, MCS provides cable connections, repair and handling solutions to clients worldwide.

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SUPERIOR HAUL ROAD STABILITY.

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SUBSTANTIAL FUEL SAVINGS ACHIEVED AT SHENHUA MINE AFTER USING ROADS BUILT WITH EARTHZYME® SOIL STABILIZER

A study conducted on an EarthZyme® haul road application at an open-pit coal mine in Xilinhote, China, by Shenhua Beidian Shengli Energy Co. Ltd. showed a substantial decrease in operational and maintenance costs. Followed by the success of a demo road in 2013, the mining operation built an additional 10km of EarthZyme® haul road in 2014.

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FOR MORE INFORMATION, PLEASE CONTACT US:
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 **CYPHER**
ENVIRONMENTAL

Cypher Environmental Ltd.

Cypher Environmental engineers high-quality, environmentally friendly solutions for dust control, erosion control and soil stabilization. We specialize in developing long-lasting, highly concentrated, non-toxic and non-corrosive products that create efficiencies and cost savings for a variety of industries including mining, municipal projects and other industrial infrastructure applications. Our Dust Stop and EarthZyme® technologies are applicable using standard equipment found at any mine site and can be used to improve existing and new road infrastructure. Dust Stop is also widely used to “cap” tailings and stockpiles to prevent erosion from wind

and rain while reducing dust. Cypher’s solutions offer lower life cycle costing than traditional methods. For example, where Dust Stop has been applied to roads to reduce dust emissions, mine water consumption for dust control has been reduced by as much as 85 percent and costs reduced accordingly due to less operational costs to maintain these roads. EarthZyme® is utilized to stabilize marginal clay-based materials to enable the construction of roads at a fraction of the cost of traditional road building materials and has proven to reduce rolling resistance, helping to improve fuel economy of haul trucks. Overall, these technologies offer unique solutions to road management.

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Titan Environmental Containment

Titan Environmental Containment specializes in the supply and installation of high-quality geosynthetics and specialty engineered construction products for mine infrastructure. From tailings ponds to caps, tunnels, channels and haul roads, Titan provides innovative and cost-effective solutions for a range of mine projects including Concrete Canvas,* a flexible concrete-filled geosynthetic that hardens on hydration to form a thin durable, waterproof layer. This eco-friendly alternative to concrete is cost-effective, easy and ideal for mine channel lining and mine vents. Titan is

also revolutionizing the mining industry with new cutting-edge polymer geogrids, TE-MXR PP and TE-MXR PET, specifically designed as non-steel solutions for soft- and hard-rock mining applications. Lighter than steel and metal mesh, these geogrids decrease mine operating costs and speed up development work. With locations across Canada and comprehensive installation, project management and technical expertise, Titan excels at working with you in the consultation, planning and execution phase of any project. Let Titan help you save money and reduce your project’s carbon footprint!

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ECO Technologies



ECO Technologies is an environmental services company specializing in custom-designed dredging interventions for harsh industrial environments. Our clients depend on us to protect what matters most to them. Whether it be their reputation, their environmental

record, their safety record, their uptime or their bottom line, our team of innovative dredging specialists gets the job done quickly, safely, and with minimal environmental impact. We are an industry leader with a reputation for efficient, timely, cost-effective results that reflect our expertise and our dedication to client satisfaction, while boasting the highest of safety and professional standards. Dredging tailings ponds and industrial lagoons represent a cost of doing business; ECO Technologies can help you keep costs low while ensuring the job gets done right.

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Veolia North America



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Veolia North America (VNA) is a subsidiary of Veolia group, the global leader in optimized resource management. It is listed on Paris Euronext (VIE) and has consolidated revenue of \$30.6 billion (USD). VNA offers a full spectrum of water, waste and energy management services, including water and wastewater treatment, commercial and hazardous waste collection and disposal, heating and cooling networks, energy consulting and resource recovery. Through these services, Veolia develops access to resources, preserves available resources and replenishes them. VNA’s customers are primarily in the commercial, industrial, mining, health care, higher education and municipality sectors. Headquartered in Boston, Mass., VNA has more than 7,000 employees (1,500 in Canada) working at more than 150 locations across North America.

CANADIAN MINING FAST FACT: The Canadian Mining Industry accounts for one in every 29 jobs across Canada and, proportionally, is the largest industrial employer of Indigenous Canadians.

– From: Facts & Figures 2018, The Mining Association of Canada

DID YOU KNOW?

THE CANADIAN MINING INDUSTRY IS...

A MAJOR EMPLOYER:

- The industry directly employs more than 426,000 workers across the country in mineral extraction, smelting, fabrication and manufacturing, and indirectly employs an additional 206,000.
- The mining industry is the largest private sector employer of Indigenous peoples in Canada on a proportional basis, and a major customer of Indigenous-owned businesses.
- Canada has one of the largest mining supply sectors globally with more than 3,772 companies supplying engineering, geotechnical, environmental, financial and other services to mining operations.
- The average annual pay for a mining worker in 2017 exceeded \$117,000, higher than the forestry, manufacturing, finance and construction sectors.
- There are more than 455 active agreements between mining companies and Indigenous communities. These agreements help ensure mining projects bring long-lasting benefits to local communities through support for education, skills training, employment, business development and more.

Source: Facts & Figures 2018 (Mining Association of Canada)



Eutectic Canada Inc.



Eutectic Canada Inc. For over 100 years, Eutectic Castolin has been delivering engineered wear protection and management solutions designed to extend service life and performance of key components and equipment, increasing productivity and reducing operating costs. Eutectic offers comprehensive, long-lasting solutions to the mining industry worldwide using advanced welding, brazing, thermal spray, polymer and wear plate technologies. Our turnkey maintenance and surfacing solutions can be carried out onsite or in our Service Centers.

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JKC Equipment specializes in the recovery of damaged tires deemed as unrepairable. We offer the mining industry tire repair programs, which recover approximately 67 percent of damaged tires reducing their Tire Purchasing Budget and Operating Costs. The process is based on the use of an Italian tire repair material (TAP RAP) and their tire reconstruction technology. With this technology, we recover tires with small and especially extreme injuries, that are not considered repairable

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Big yellow mining truck



Normac Adhesive Products Inc.



Normac Adhesive Products Inc. is a Canadian manufacturer of abrasion- and corrosion-resistant coatings based on sprayable polyurethanes, sprayable polyureas, room temperature castable polyurethanes, grouts/putties

and adhesives/primers. More than 25 years of continuous research and development has enabled Normac to develop and manufacture unique products that have proven themselves worldwide to not only exhibit outstanding wear-and-tear qualities and longevity, but to also be user-friendly and safe to work with. The company manufactures its own primer/adhesive systems for bonding all of its products to a wide variety of substrates. Normac is also well known for its 900R and 600R room temperature curing adhesives for rubber/urethane and rubber/urethane-to-steel requirements. Coupled with a strong commitment to engineered solutions and service, Normac can provide that little extra to ensure complete customer satisfaction.

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Berba Mining Business Inc.

Berba Mining Business Inc. is a Canadian company that specializes in exporting and importing mining equipment, mining and metallurgical engineering services and minerals. Berba has more than 20 years of experience doing business in the Middle East with a special focus on Iran. The founder and Managing Director of Berba, Hamid Amir Poursaeid, has offices in the Middle East and recently opened a new office in Iran. If you are a mining supplier of products and/or

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Freight/transport business activities



Valley Blades Limited

Valley Blades Limited, ISO 9001:2015 certified, manufactures replacement wearing edges for earth and snow removal equipment, including bulldozers, road graders, loaders, scrapers, excavators and snowplows. These wearing edges are manufactured using computer-assisted technology to rigid specifications that meet or exceed those set by the original equipment manufacturer. Since it began in the early 1960s, Valley Blades Limited has grown into

a world supplier of replacement wearing edges and has built a strong dealer network that supplies competitively priced, quality products and reliable service backed by an extensive inventory. Valley Blades Limited manufactures replacement wearing edges for Caterpillar, Komatsu, Deere, Case, Terex, Volvo and more, and has manufacturing facilities located in Waterloo, Ontario, and Edmonton, Alberta, to serve the mining industry nationwide and customers around the world.

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Export Development Canada

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Organisme de crédit à l'exportation du Canada, Exportation et développement Canada (EDC) aide les entreprises canadiennes de toute taille à percer, croître et réussir à l'étranger. À titre d'experts en risque à l'échelle internationale, nous leur offrons les connaissances, le financement, l'assurance et les relations nécessaires. Nous offrons aussi des solutions financières à des entreprises mondiales en vue de faciliter et d'accroître les achats auprès d'entreprises canadiennes. Nous assumons le risque, afin de permettre à nos clients de conquérir le monde. **Apprenez-en plus à www.edc.ca.**

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EDC B2B Program inside MSTA CANADA Pavilion at Perumin 2019, Arequipa, Peru



GEM Systems Inc.

GEM Systems Inc. GEM Systems Inc. is a world leader in high-precision magnetometers, gradiometers and magnetic sensors for mineral/oil exploration, environmental, engineering, UXO applications and earthquake research. GEM Systems pioneered the most precise optically pumped potassium magnetometer and the high-speed Overhauser. Ground systems include magnetometers and gradiometers available in walking mode and featuring integrated GPS and optional VLF-EM for shallow resistivity mapping. Airborne systems include magnetometer, VLF sensor(s) and towed bird systems for single sensor and gradiometer (vertical and/

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MOTION METRICS

ConMICO Inc.

ConMICO Inc. of Concord, Ontario, with more than 54 years of experience, has expertise in the utilization of high-pressure water systems for mining applications with pressures up to 50,000 PSI and up to 1,200 HP. Applications for jet-boring and hydro-fracturing of hard rock are very successful. As a result, ConMICO can engineer a solution to fit many needs. Other products include durable, lightweight grouting and cement-injection plants for use in soil consolidation,

grout jetting to 10,000 PSI, pile formation, tunnel forming and repairs, forming water curtains, backfilling, roof bolting and grouting of cracks in tunnels and mineshafts. For pump systems, ConMICO manufactures high-speed colloidal mixers, double-drum mixers and agitators, as well as long-lasting, well-designed packers, valves and certified high-pressure fittings. Wet and dry shotcrete systems and dependable concrete pumps are also available.

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CRITICAL MINERALS IN CANADA

Canada's minerals sector is an important global supplier of critical minerals and metals that are essential ingredients to our modern economies and emerging technologies. They have few substitutes in use and face high supply risks. Canada's advanced mineral projects offer a secure, reliable source of supply.

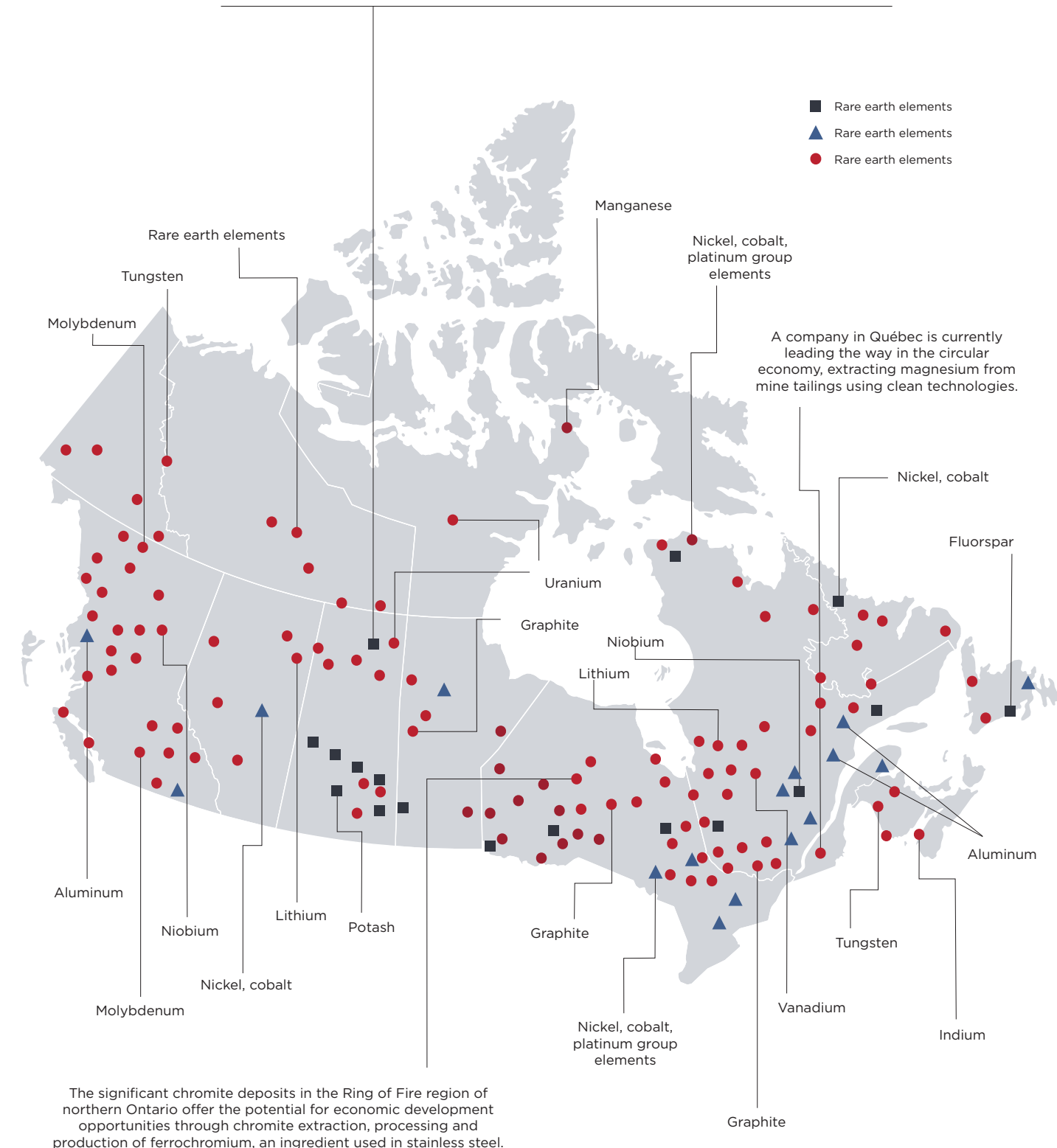
Sources: Critical Commodities for a High-Tech World (2013), Australia's Potential to Supply Global Demand (2013), U.S. Department of the Interior List (2018), European Commission Critical Raw Materials (2017), United States Geological Survey, S&P Global Market Intelligence, Statistics Canada, company reports and websites.

Notes: Selected minerals are those that have been identified as critical by Canada's key trading partners (i.e. Japan, the European Union, South Korea, U.S. and the U.K.) and that are found in Canada. Exports are for 2017 and include values of ores, concentrates, semi-fabricated and fabricated metal and mineral products. Advanced projects contain at least Indicated mineral resources and have a completed technical study. Projects that involve multiple minerals are included in the project counts for each individual commodity. Global production rank is based on mine production.

For additional information on the Canadian mining industry, visit the Minerals and Metals Facts website, at www.nrcan.gc.ca/mining-materials/facts/20507



Canada is the second largest producer and exporter of uranium in the world, with 22% of global production in 2017. Canada is host to 24 advanced uranium projects. Canada's advanced mineral projects offer a secure, reliable source of supply.



Horne Conveyance Safety Ltd.

Horne Conveyance Safety has extensive experience in providing advanced engineered safety solutions in mine hoisting and conveyance and impact arresting. This includes its cutting-edge Emergency Fall Arresting System (EFAS), Levelok cage and skip holding systems and Reng Gopro Guide Rollers. With a range of products installed in more than 100 mines worldwide, Horne’s proven track record is built on a visionary approach to technological trends in the industry as well as the company’s adaptability to client needs and rapid response to industry challenges as they arise. Horne continually invests in R&D, has a reputation for professionalism and efficiency, and employs experienced employees who are the best in their fields. As a result, clients include some of the world’s largest and most reputable mines from well-developed markets, including deep gold and platinum mines in South Africa, growing projects in Mongolia, and operations in North America, Latin America and Australia. Contact Horne today.

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digital drives, safety monitors, PLC-based operating systems and the powerful Hepburn Hoist Manager software. Hepburn Hoist Reporter software provides web-accessible, real-time hoist status and production reporting. HEI engineers provide efficient, functional designs and fully integrated hoisting solutions with single-source responsibility. HEI supplies stage winches, sheaves, automated weighing systems and new braking systems, retrofit digital controls, engineering, hoist rebuilding and field services for existing hoists. HEI has an extensive installed hoist population and strong international presence maintained through local representatives supported by an effective service organization and remote access Hepburn Hoist Care. HEI owns the mine hoist technology of Canadian Ingersoll Rand (CIR), Westinghouse Canada, FH&B and Ottumwa, and provides OEM parts and service worldwide.

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HEPBURN ENGINEERING INC.

ANUNCIO



HEPBURN ADQUIERE ACTIVOS DE PROPIEDAD INTELECTUAL DE DAVYMARKHAM LIMITED

Hepburn Engineering Inc. (Hepburn) ha adquirido todos los Activos de Propiedad Intelectual de DavyMarkham Limited. DavyMarkham Limited era una firma de Ingeniería con base en el Reino Unido que diseñaba, fabricaba y daba soporte a Malacates, winches, poleas de compensación y otro equipo relacionado para la Industria Minera Global.

Esta adquisición de la Propiedad Intelectual de DavyMarkham extiende la Presencia Global de Hepburn en el mercado de malacates mineros y winches, que incluye un portafolio de partes y servicio OEM de Hepburn con Canadian Ingersoll Rand (C.I.R.), Fullerton, Hodgart & Barclay (FH&B), Westinghouse y Ottumwa.

Hepburn alienta a todos los antiguos clientes de DavyMarkham Ltd. a contactarnos directamente a sales@hepeng.com para soporte continuo de ambos: piezas de repuesto y servicio al equipo.

Las solicitudes pueden ser dirigidas al Equipo de Minería de Hepburn a través de:





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Timberland Equipment Limited

Timberland Equipment Limited (TEL) is a Canadian privately owned company established in 1947, making this year our 72nd consecutive year in business, based in Woodstock, Ontario, Canada. ISO 9001: 2015 certified, Timberland designs and manufactures mine service hoists, production hoists, general purpose materials hoists, personnel hoists, mine construction hoists, shaft sinking hoists, stage, platform, and galloway handling hoists, slope hoists, mine truck-mounted escape hoists and cages, rail car puller systems, hoist re-rope and rope tensioning

systems, reel winders, small to large sheaves, and winches for conveyor belt tensioning, both gravity and dynamic based. We've been building this equipment specifically for the mining industry since the late 1960s and comply to several codes including SIL (1, 2, and 3.) Timberland owns and operates four other companies: TSE International Inc. and Almon Johnson Limited in Shreveport, Louisiana, Marcotte Mining Machinery Services Inc. in Sudbury, Ontario, OK Champion in Woodstock, Ontario, and Hawboldt Industries in Chester, Nova Scotia.

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- Musical instruments (copper, silver, steel, nickel, brass, cobalt, copper, iron, aluminum)
- Sports equipment (graphite, aluminum, titanium, calcium carbonate, sulphur)
- Wind turbines (steelmaking coal, iron ore, copper, nickel)
- Energy (coal, uranium, oil sands)

- From: Facts & Figures 2018, The Mining Association of Canada



Generation 2 Filtration

Generation 2 Filtration™ (G2F) has been doing international business for more than 22 years. An ISO 9001:2015 certified company, G2F has a special focus on innovative products intended to decrease operating costs, maintenance costs and downtime – and extend management options with the G2F product line. Generation 2 Filtration™ is registered in NATO's military catalogue with associated NATO stock numbers. Its products offer multiple benefits: cutting costs; a positive environmental impact;

extending oil drain intervals; removing contamination down to one micron; and removing water for all types of oils. Generation 2 Filtration™ products are applicable for mining equipment, construction, industry, transportation and more, whether it is hydraulic, engine, thermal, transmission or gear oils – basically any oil that needs filtering to protect and prolong the life of the asset. Generation 2 Filtration™ is the proactive solution to benefit the end user and the environment.

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DID YOU KNOW?

THE CANADIAN MINING INDUSTRY IS...

AN ECONOMIC ENGINE:

- Mining contributed \$97 billion to Canada's Gross Domestic Product (GDP) in 2017.
- The industry accounted for 19% of the value of Canadian goods exports in 2017.
- Canada's value of mineral production was \$43.9 billion in 2016.
- According to the Natural Resource Governance Institute, in 2017, extractive sector companies reported payments totalling more than \$9.3 billion to Canadian governments.

Source: Facts & Figures 2018 (Mining Association of Canada)



AIL MINING



AIL MINING is a world leader in efficient mine infrastructure solutions in structural plate and MSE wall systems for heavy-haul road and rail arches, MSE crusher walls and retaining walls, stockpile, conveyor and escape tunnels and portals,

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AFX Mixing & Pumping Technologies

AFX Mixing & Pumping Technologies is a recognized leader in industries including mining, paint and pigments, fertilizer, chemical, waste and water treatment, and many more. AFX has more than 30 years’ experience in the engineering and manufacture of mixers and peristaltic hose pumps. Global operations include facilities in Canada, South Africa and the U.K. All process designs include FEA and 3D drawings, with manufacture to ISO 9001. AFX Ensuring drive units are suitable for application power

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Boundary Equipment Co. Ltd.

Boundary Equipment Co. Ltd. is the world’s premier aftermarket supplier of castings for mining, material handling and smelting. Boundary supplies undercarriage for mining shovels and drills, apron feeder pans, ladles, and other standard and custom-designed castings. Manufactured to the highest quality, Boundary replacement parts are fully compatible with P&H, CAT, BE, O&K, Hitachi and Komatsu OEM parts. The company’s competitive strengths include extensive engineering capability and onsite product support. Customers turn to Boundary engineers for innovative solutions and design modifications that extend product life and provide cost-effective performance. ISS Mine Safety is a division of Boundary that expands on the product offering to mining customers. ISS specializes in mine safety products and solutions for equipment maintenance efficiency challenges. Established in 1980, Boundary’s dedication to providing customers with a superior alternative to OEM parts has made the company a preferred supplier to major mines and smelters worldwide.

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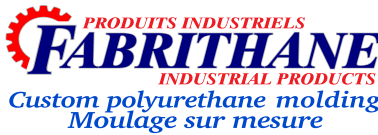
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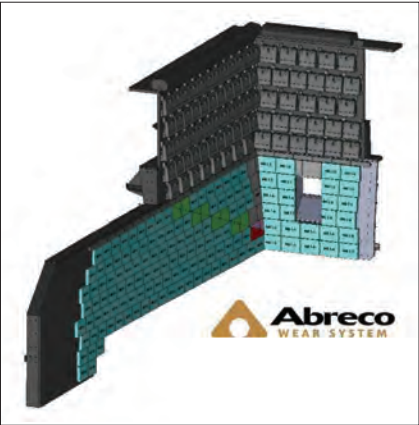
For more than 50 years, **Fabrithane Industrial Products Inc.** has manufactured cast-urethane wear parts for the mining, construction, forestry, pulp and paper industries. Some of the parts manufactured and relined by Fabrithane include

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The Gaspé Puncher Automatic clears the Tuyère pipe openings in the converter vessel of Cu & Ni smelters thereby making the smelting process more efficient.



To celebrate their partnership, Consep presented Heath & Sherwood with a statue of an ice hockey player completely made of stainless steel, affectionately named Sydney T Kirkland and are glad to now have him in the "town that built NHL!"

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Polycorp Ltd. Is an ISO 9001 company that manufactures high pressure moulded rubber mill liners, uncured sheeting and rail seal extrusions for the mining and transportation industries. Polycorp mill liners are engineered to optimize mill power draw, improved mill throughput and grinding to reduce cost per ton of ore ground. Polycorp services the mining industry with global service support.

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Precisioneering DKG Corp.

Precisioneering DKG Corp. designs and manufactures corrosion-resistant, engineered fibreglass equipment. Standard products include fibreglass pollution-control scrubbers, ventilation systems (fans, ducting and stacks), tanks, brine makers, grating, platforms, walkways and ladders. Customers continually challenge Precisioneering with their most difficult process-engineering problems because they have learned that Precisioneering's results are innovative, cost-effective and long-lasting. They also find the company to be flexible, responsive and

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Tega Industries Canada Inc.

TEGA Industries, founded in 1976 as a Manufacturing Licensee of SKEGA Sweden, specializes in Design & Manufacturing of Mill Lining (Rubber/PM Composite) for AG/SAG, Pebble/Ball Mills including SAG Rubber Pulp Lifters & Discharge Cones. TEGA's newest tough series, Hybrid Composite Liners are being successfully used in 40'/36'/34' Dia SAG-SHELLS. In Material Handling segment, TEGA manufactures Wear Liner Plates (Rubber/Ceramic) for Chutes, Hopper. Complete Fabrication of SAG Discharge Chutes, Screen Oversize/

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Tramac Equipment Ltd.

Tramac Equipment Ltd. has manufactured rock breaker boom systems for the crushed stone and mining industries for more than 30 years. Used in large dump pockets, the rock breaker systems have high-capacity gyratory crushers, carrying hammers up to 15,000 ft. lbs., and horizontal reach measurements exceeding 20 metres. Tramac has models that are either off-the-shelf or customized through complex assembly, creating modern options and accessories for diverse applications, including

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Westpro Machinery Inc. AS120 and AS108 product line



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Technosub provides reliable engineering dewatering solutions and turnkey projects to mines, with the fastest delivery time in the business. Over the last 35 years, more than 70 percent of all mining companies in Canada have put their trust in Technosub because they know they can rely on its expertise to cope with the many challenges that arise from dewatering. Founded in 1983, Technosub is now, with its 60,000 square feet, the largest industrial pump repair and

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Coding Metrology Inc.

Coding Metrology Inc. is a Canadian owned Measurement and Metrology automation services company offering premium laser scan and analysis services. We specialize in grinding mill and crusher wear component inspection for the mining industry. Our expertise is in wear tracking and analysis of SAG, Ball, and Rod mill liners, as well as gyratory crusher liners. The use of state-

of-the-art terrestrial scanning and in-house developed automation technology is an integral part of the business. Implementation of our quality control and assurance program is utilized for a high-quality report to give insight into mill operation and liner wear trends. We also offer services to the Architecture, Engineering, and Construction (AEC) industry.

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DID YOU KNOW?

THE CANADIAN MINING INDUSTRY IS...

A GLOBAL LEADER:

- Thanks to its rich geology, Canada is one of the largest mining nations in the world, producing more than 60 minerals and metals.
- Canada ranks in the top five countries in the global production of 16 major minerals and metals:
 - First in potash
 - Second in uranium and niobium
 - Third in nickel, gemstones, cobalt, aluminum and platinum group metals
 - Fourth in cobalt, cadmium, graphite and sulphur
 - Fifth in diamonds, titanium, gold and mica
- Fifty percent of the world's public mining companies are listed on the TSX and TSX-Venture Exchanges. Together, the two exchanges accounted for 38% of the equity capital raised globally for mining in 2017.
- Globally, Canada is recognized for its leadership in safety and sustainability. Mining companies in Canada were the first in the world to develop an externally-verified performance system for sustainable mining practices with the creation of MAC's Towards Sustainable Mining initiative in 2004.

Source: Facts & Figures 2018 (Mining Association of Canada)



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Progesys project: Beauharnois Hydroelectric Dam, Beauharnois, Québec, Canada



Carlson Software

Founded in 1983, **Carlson Software** specializes in CAD design software, field data collection, and machine control products for the land surveying, civil engineering, construction, and mining industries worldwide, providing one-source technology solutions from data collection to design to construction. Carlson Software's renowned dedication to customer service is unique in the industry. Following the 2017 acquisition of Renishaw's laser surveying products, Carlson created the Laser Measurement Devices (LMD) division and now offers world-class systems and sensors for high-performance mapping, surveying,

positioning and measuring. The measurement and surveying systems are designed for use in conditions where speed, accuracy and safety matter. The systems for mine/quarry scanning and vessel-mounted waterway scanning have been developed over many years in collaboration with in-the-field professionals and are distinguished for their reliability and ease-of-use. Carlson is recognized for its innovation and its renowned customer service and technical support. To find out more, contact Carlson at lasermeasurement@carlsonsw.com.

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SightPower Inc.

SightPower is headquartered in Ottawa, Canada and with offices and development centres in Johannesburg, South Africa and Kharkiv, Ukraine. SightPower globally provides digitalization and integration of all mining operations under the trademark **Digital Mine™**. The concept of digitalization assumes implementation of Digital Twin: the dynamic data model of the mine. Digital Twin reflects in real time any developments and changes which are being happened to the mine. The concept of Digital Mine assumes integration into the unified informational space information provided by monitoring and fleet management systems as well as simulation and

modelling systems which are being used. Digital Mine allows the client to make effective business decisions by obtaining uninterrupted access to the distributed newly collected and historical mine spatial data regardless of its volume and the actual location of data servers. Other solutions provided by SightPower include but are not limited to geological modeling, mine design and planning, automated surveying with laser-based technologies, and informational support of mineshaft lifecycle, including ice-wall simulation models for mineshafts which are being built, and automated mineshaft inspection systems.

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DID YOU KNOW: “Sustainability is increasingly important in our industry, and the concept of an all-electric mine, complete with electric-powered trucks to operate within it, is an exciting game changer for the sector,” said Brent Bergeron, Goldcorp Inc.’s Executive Vice President for Corporate Affairs and Sustainability. “This initiative showcases how serious we are when it comes to innovation, in addition to being a partner in the fight against climate change.” Not only does this project, which aims to start commercial production in 2019, showcase how a Canadian mining company can lead the way in reducing carbon emissions, but it also serves as an important example on how the industry can be a leader for change when it comes to the resource economy. In its all-electric focus, the Borden mine will eliminate the use of vehicles powered by fossil fuels, which will have a positive impact in eliminating greenhouse gas emissions. “We are proud to be part of a project that could have lasting impacts on the future of the mining industry,” concluded Bergeron. “Innovation, clean technology and environmental sustainability are key parts of our business, and we are looking forward to seeing what other projects come to fruition with this goal in mind in the years to come.”

- From: Facts & Figures 2018, The Mining Association of Canada



MINING. HELPS ELECTRIC CARS GO THE DISTANCE

Topax Protektive Packaging



Heavy equipment, vast geography, remote locations, severe environments are just some of the challenges of the mining industry. Topax has the expert team with the capabilities and solutions to address these challenges, making Topax a valuable partner to its mining clients. Topax provides

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CANADIAN MINING FAST FACT:

The Mining Sector in Canada is one of the few sectors that consistently makes a positive contribution to Canada's balance of trade.

- From: Facts & Figures 2018, The Mining Association of Canada

DSI Underground

DSI Underground Canada is the leading manufacturer and supplier of specialist ground support products to the underground industry. Its manufacturing and distribution centres are located across the country at the following locations:

- Saskatoon, SK (Corporate office & Manufacturing)
- Sudbury, ON (Administration office & Manufacturing)
- Sturgeon Falls, ON (Manufacturing)
- Rouyn-Noranda, QC (Distribution)
- Val-d'Or, QC (Distribution)

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Copper casting moulds



Minerva Intelligence

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Promine is a software solution built by mining and geology experts. Promine functions as an extension of AutoDesk's AutoCAD software providing additional functionality specifically oriented towards the mining industry. The software uses the native 3-dimensional aspect of CAD software to enable users to produce functional models of working, planned or past mines. The main focus is on the development of technology for underground mines, open-pit mining, as well as strictly geological activities. Promine owes its success to the knowledgeable and passionate team of experts behind the software. Using their years of experience in the mining and geology industries, they have perfected the software to become an exceptional tool for mining and geology tasks. Promine is the most flexible and easy-to-use mining and geology software. Promine strives to help mining engineers and geologists be more efficient and more profitable in just a few simple clicks.

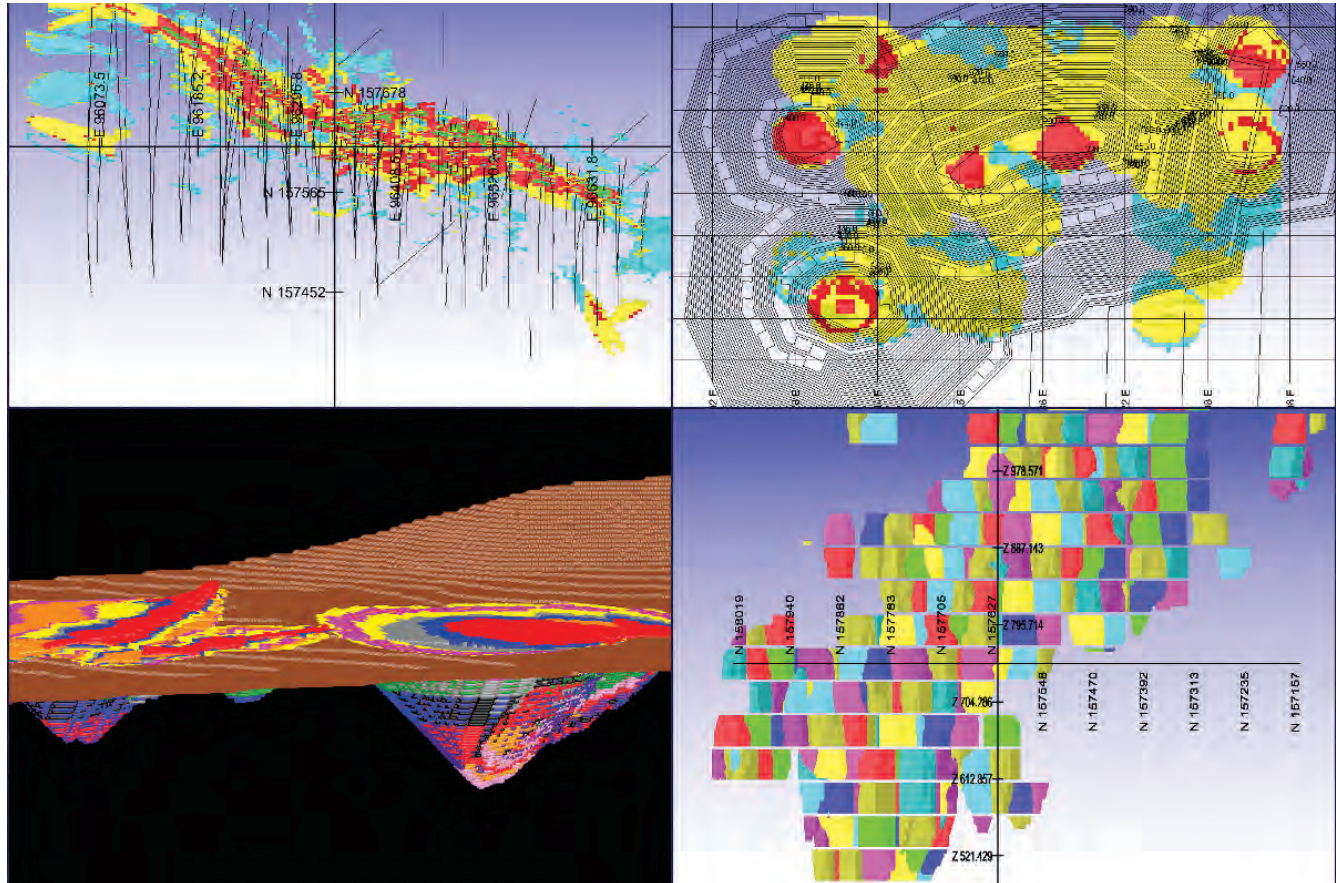
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ThreeDify Inc.

Next generation mining software solutions. Based in Ottawa, Canada, **ThreeDify Inc.** offers innovative mining software solutions to help clients increase resource recovery and reduce mining costs. ThreeDify's competitive advantage lies in their ability to combine advanced modelling and optimization techniques with modern computing technologies in developing next generation mining software. ThreeDify GeoMine is a well-rounded, integrated package consisting of 12 independently licensed modules. It features an advanced block modeller (GeoModeler), a high performance pit optimizer (FlowPit) and rapid pit designer (QuickPit), a mineable shape optimizer (Stopemizer), a parametric cave optimizer (Cavemizer) and underground design module (uCAD), a unique open pit-to-underground transition optimizer (Optunimizer), a cutoff grade optimizer (OptimCut), a point cloud meshing tool (CloudMesher) for 3D scanners and UAVs, as well as a Life-of-Mine and production scheduler (iScheduler) for both open-pit and underground mines. ThreeDify's solution is scalable, cost-effective and easy-to-use. ThreeDify's license model is very flexible as it offers short-term subscription, perpetual or network licenses.

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Boundary Equipment Co. Ltd.

Boundary Equipment Co. Ltd. is the world's premier aftermarket supplier of castings for mining, material handling and smelting. Boundary supplies undercarriage for mining shovels and drills, apron feeder pans, ladles, and other standard and custom-designed castings. Manufactured to the highest quality, Boundary replacement parts are fully compatible with P&H, CAT, BE, O&K, Hitachi and Komatsu OEM parts. The company's competitive strengths include extensive engineering capability and onsite product support. Customers turn to Boundary

engineers for innovative solutions and design modifications that extend product life and provide cost-effective performance. ISS Mine Safety is a division of Boundary that expands on the product offering to mining customers. ISS specializes in mine safety products and solutions for equipment maintenance efficiency challenges. Established in 1980, Boundary's dedication to providing customers with a superior alternative to OEM parts has made the company a preferred supplier to major mines and smelters worldwide.

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Mobile Parts Inc.

Founded in 1980, **Mobile Parts** has become a major supplier of parts, equipment and services to the mining industry. The company ships to more than 35 countries from its 100,000-sq.-ft. complex in Sudbury, Ontario. Mobile Parts is a full-service company with ISO certification, more than 45 employees and an inventory of more than 18,000 parts. OEM parts are sourced from the same equipment suppliers that originally manufactured the parts and components used in your equipment. Mobile Parts can provide what you need to keep

all your name-brand equipment operating at maximum reliability and productivity. The company is also known for its quality of work. Its service centre of more than 10,000 sq. ft. features a custom fabrication and machining facility with CNC capability, a complete driveline division, an assembly and rebuild shop, and garage with eight hoists. Mobile Parts also produces a line of rugged, reliable utility vehicles designed to operate in demanding mining environments and can provide custom Special Purpose Vehicles in various configurations.

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Reliable Wheel Products Ltd.



Reliable Wheel Products manufactures products used in the maintenance of heavy equipment. SuperLift Jacks are air or electric/hydraulic with power-drive capability. These jacks are available in 50- to 350-ton models with a range of lift points. ManLift Work Platforms raise workers to a safe working height when working with large diameter tires and wheels. RWP Tire Press Centres are electric/hydraulic tire presses for OTR tires. They provide safe and efficient mounting and demounting of tire sizes from 25-in. through 63-in. Equipment Support Stands (Jack Stands) support equipment from 50 through 300 tons, are engineer-certified and are available in a variety of support heights. Certified quality systems – ISO 9001:2015.

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RIMEX

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peripheral technology that sets new standards for tire monitoring and asset management. With sales and inspection/repair centres around the world, and a track record second to none, RIMEX continues to strive for shared success with its customers as it explores and embraces the future.

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Valley Blades Limited

Valley Blades Limited, ISO 9001:2015 certified, manufactures replacement wearing edges for earth and snow removal equipment, including bulldozers, road graders, loaders, scrapers, excavators and snowplows. These wearing edges are manufactured using computer-assisted technology to rigid specifications that meet or exceed those set by the original equipment manufacturer. Since it began in the early 1960s, Valley Blades Limited has grown into a

world supplier of replacement wearing edges and has built a strong dealer network that supplies competitively priced, quality products and reliable service backed by an extensive inventory. Valley Blades Limited manufactures replacement wearing edges for Caterpillar, Komatsu, Deere, Case, Terex, Volvo and more, and has manufacturing facilities located in Waterloo, Ontario and Edmonton, Alberta, to serve the mining industry nationwide and customers around the world.

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Supersize car and grader in open pit mine



Weldco-Beales Manufacturing (WBM)

Weldco-Beales Manufacturing (WBM) designs and manufactures premium attachments for heavy equipment, specialized to the demanding requirements of mining industries. Typical attachments include buckets, blades, cable reelers, tire handlers, dump bodies and custom products. WBM is 100 percent Canadian owned and operational since 1945. With over 265,000 sq.ft. combined manufacturing space across Canada and sales offices spanning North and South America, WBM is conveniently

located to serve global industries. Through its Quality Control Program, the company's certified team of experts and advanced manufacturing equipment ensure the highest quality and most reliable products on the market; topped with exceptional product support and warranty programs. WBM is committed to continual growth and exploration of opportunities that serve the global mining market. Contact WBM or your preferred distributor for more information: www.weldco-beales.com.

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Axxess International Inc.

Axxess International Inc. is an international freight forwarder and customs broker. With emerging markets and increased worldwide demand for mineral resources, Axxess International has the best practices and most reliable partnerships to meet your transportation mining logistics requirements. This includes reliable, cost-effective solutions for transportation of site materials and uniquely shaped mining equipment, including heavy-lift and oversized cargo, police escort arrangements or liaisons with public works and other

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Cole International Inc.

Cole International Inc. is one of Canada's largest privately owned international freight forwarders and customs brokers, also providing a variety of customs and compliance consulting services. With offices in all major Canadian cities and located at strategic points throughout the U.S. (including all major Canada/U.S. border crossings), Cole has been meeting and exceeding requirements of the resource-based industrial sector for more than half a century. Cole recognizes the demands of delivering critical components to

remote locations while navigating a web of complex foreign customs regulations. Its professionals have the technical knowledge and experience to ensure your exports are handled smoothly, efficiently and accurately every time. As a successful Canadian company competing in the global marketplace, Cole understands many of the obstacles faced by MSTA CANADA members and is uniquely equipped to provide the right specialized logistics solutions to help your business compete and achieve your goals.

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www.coleintl.com



Gillespie-Munro Inc.

Gillespie-Munro is a full-service privately owned Canadian international freight-forwarding firm specializing in innovative solutions to clients' and agents' transportation challenges since 1947. Services include freight forwarding agency, air freight, documentation, dangerous goods, heavy lift cargo, letters of credit, marine charter brokers, marine insurance, out-of-gauge, project and reefer cargo, and import or export – to or from Canada or the U.S. or between foreign points. Gillespie-Munro can accommodate any and all marine or air transportation requirements. Its staff is highly trained in the use of Incoterms, UCP 600, and the processing of dangerous goods shipments and specialty cargoes by ocean and air freight. With offices in Montréal, Toronto, Vancouver and the U.S., and agents throughout the world, Gillespie-Munro's total transportation philosophy offers a complete service package whether you are shipping one ton or 6,000 tons, part charter or project freight to onsite delivery. There is no substitute for experience.

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Manitoulin Group of Companies

Manitoulin Group of Companies is Canada's leading transportation and logistics solutions provider, with more than 46 years in the mining industry. As a single-source provider, Manitoulin offers a wide array of global services that includes LTL/TL, intermodal, logistics, international freight forwarding, warehousing, heavy haul, customs brokerage, crating, global time-critical delivery, supply chain management, and residential and commercial moving. Manitoulin leverages its extensive network to deliver these services to major rural and urban areas. In North America alone, Manitoulin's distribution coverage consists of more than 70 Canadian terminals and 250 U.S. service centres. From small to large logistics programs, rest assured that Manitoulin has the right locations, the right resources and the right knowledge to fulfill your shipping requirements.

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HOW WE WORK FOR OUR MEMBERS



BPT Components & Parts Inc.

BPT Components & Parts Inc. is a leader in the Clark Powertrain market. With its state-of-the-art dyno-test machine to ensure its products meet or exceed OEM standards, BPT inventories more than \$5 million in Clark/Dana Powertrain components and replacement parts for the mining, logging and construction industries. In addition, BPT is a

Carraro warehouse distributor and Funk authorized dealer. Now BPT can provide you with more lines to help keep your machines running with OEM parts at competitive prices. Turn to BPT to keep your equipment up and running with the highest quality parts and components at exceptional savings for you, the customer.

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L&M Powertrain Parts

Since 1959, **L&M Powertrain Parts** has set the standard for performance and quality in powertrain parts and components for off-road vehicles and has become one of the leading suppliers to the mining industry worldwide. L&M specializes in supplying

transmission, torque converter, differential and planetary axle parts for dealers, distributors and re-builders servicing machines such as Atlas Copco, Dux, Eimco, Jarvis-Clark, GHH, JCI, MTI, Sandvik, Tamrock, Toro, Volvo and Wagner.

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MacLean Engineering

MacLean Engineering specializes in underground mobile equipment solutions based on hard rock mining experience, multi-discipline engineering capability, unit-of-one manufacturing expertise, and worldwide customer service and support. The company's product suite includes platform and utility bolters, shotcrete sprayers, and transmixers in the ground support category; remote operated blockholer drills, mobile rock breakers, and water cannons in the ore flow/secondary reduction category and, Mine-Mate™ scissor lifts, boom lifts, boom trucks, ANFO/emulsion chargers, personnel carriers, fuel/lube trucks, cassette trucks, fan and pipe

handlers, and service drills in the utility vehicles and attachments category. MacLean has been innovating for hard rock mining mobile equipment safety and productivity for almost 50 years, supporting customers worldwide with branches across Canada as well as in Mexico, Peru, South Africa and Australia. The latest chapter in the MacLean innovation story is the introduction of full-fleet electrification, integrating best-in-class battery and electric drive technology to deliver a safe, proven, and data-rich option for diesel-free operations in the underground environment. For more information, please visit www.macleanengineering.com.

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Mobile Parts Inc.

Founded in 1980, **Mobile Parts** has become a major supplier of parts, equipment and services to the mining industry. The company ships to more than 35 countries from its 100,000-sq.-ft. complex in Sudbury, Ontario. Mobile Parts is a full-service company with ISO certification, more than 45 employees and an inventory of more than 18,000 parts. OEM parts are sourced from the same equipment suppliers that originally manufactured the parts and components used in your equipment. Mobile Parts can provide what you need to keep

all your name-brand equipment operating at maximum reliability and productivity. The company is also known for its quality of work. Its service centre of more than 10,000 sq. ft. features a custom fabrication and machining facility with CNC capability, a complete driveline division, an assembly and rebuild shop, and garage with eight hoists. Mobile Parts also produces a line of rugged, reliable utility vehicles designed to operate in demanding mining environments and can provide custom Special Purpose Vehicles in various configurations.

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MacLean Engineering Battery Electric Bolter



Nelmaco Eastern Ltd.

Nelmaco Eastern Ltd. is the OEM of all JOY Canadian air and electric slusher scrapers. Nelmaco also manufactures parts for both Canadian and American-made JOY slushers. All JOY units and parts are made to JOY's original specifications. Nelmaco provides all the accessories required to work with JOY units. These items include scrapers, air motors, throttle valves, sheave blocks and non-rotating wire rope. Nelmaco also specializes in repairing, rebuilding and servicing all makes and models

of slushers, tuggers, hoists and winches. Rentals of slusher units are available. Nelmaco stocks full-sized portable toilets and hand carry units, along with many sanitation supplies. In addition, Nelmaco provides maintenance for mine ventilation fans and supplies parts for these units. Nelmaco continues to expand its capabilities in rebuilding and repairing smaller mining equipment, giving better serviceability and the best quality to its customers. Nelmaco provides its services on a global scale.

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Trojan Tire Inc.

Trojan Tire Inc. is the manufacturer of patented Soft Core® - Trojan Air-Cell® Rubber Tire Fill. Soft Core ensures no lost downtime due to flat tires for huge productivity gains. The Trojan Air-Cells flex with a tire's load to absorb shock and provide an air-like ride for machinery and operator. Soft Core is reusable, increases load capacity, eliminates air = no explosive force,

provides best traction, is safe to handle and is best for the environment. Soft Core can increase tire life up to 25 percent. Trojan Soft Core is up to 10 times stronger than weak polyurethane to carry heavy loads and is resistant to breakdown - for best productivity. Soft Core is used in underground mines on production and support equipment.

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TROJAN TIRE INC.



ABC Ventilation Systems

ABC Ventilation Systems can accommodate all your mining and tunneling ventilation needs from ventilation designs to supplying high efficiency ventilation systems. The ABC Ventilation Systems extensive catalogue includes, but is not limited to; top quality ducting, high efficiency fans, inflatables, curtains, and brattices. Its line of ToughVent fans have been engineered using computational fluid dynamics and extensive testing to maximize their aerodynamic performance, allowing them to reach efficiencies of up to 85 percent.

Coupled with ABC Ventilation Systems semi-rigid HardLine ducting, with a low resistance along and low leakage values, the potential energy savings can have a return on your investment in as low as 2 years. Its team of in-house engineers are also available to help you further optimize designs to have a more efficient, and overall better ventilation system. With more than 50 years of experience in the industry, ABC Ventilation Systems is confident it will provide you with the best that ventilation can offer.

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DSI Underground

DSI Underground Canada is the leading manufacturer and supplier of specialist ground support products to the underground industry. Its manufacturing and distribution centres are located across the country at the following locations:

- Saskatoon, SK (Corporate office & Manufacturing)
- Sudbury, ON (Administration office & Manufacturing)
- Sturgeon Falls, ON (Manufacturing)
- Rouyn-Noranda, QC (Distribution)
- Val-d'Or, QC (Distribution)

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G+ Industrial Plastics

Since 1995, **G+ Plastics** has broken new grounds by manufacturing exclusive, high-performance plastic products for the mining industry. Lightweight, heavy-duty, long-lasting, and corrosion-resistant, plastics are suitable for an array of health and safety products designed to better protect mining workers. Thanks to its expertise in industrial plastics, G+ Plastics is revolutionizing mine ventilation with the G+ SPEED AIR DUCT. Flexible yet robust, this semi-rigid vent tubing with

unparalleled airtightness conveys air efficiently over great distances while minimizing vent line energy consumption. Choosing the G+ SPEED AIR DUCT also means having access to the company expertise. G+ Plastics offer technical support to optimize the duct performances during the design stages and provide on-site training to ease the installation process. Finally, G+ Plastics visit client sites to conduct vent line performance surveys and further assist in its clients needs.

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TOP 6 COUNTRIES WHERE CANADIAN MINING AND EXPLORATION COMPANIES ARE ACTIVE

101 Countries
1,361 Companies
3,997 Projects

80%
TOTAL



Rocvent Inc.

Rocvent Inc. is a global manufacturer and supplier of a full line of positive and negative pressure ventilation ducts, fans and accessories. With more than 30 years' experience, Rocvent also offers a complete range of products for 50 and 60 Hz system-design capabilities based on supplied parameters. Its ducting is especially designed for rough, hostile underground mining and tunneling environments, and for the use of advanced radio-frequency (RF) welding techniques to ensure

consistent strong welds on tubes in diameters from one to 10 feet (0.3 to 3.1 metres). Custom lengths and special in-house-designed suspension and Snap-Roc couplings, zipper joints and Velcro connections are also available, as are inflatable head covers that have protected miners from falling loose ore in passes and raises for nearly 20 years. The Rocvent team has earned its reputation as "manufacturer of the highest quality products at competitive prices."

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DID YOU KNOW: It is important that the process of extracting natural resources is done in the most environmentally respectful way. Vale, has been prioritizing this goal through its Clean AER Project. "Vale has operated in communities across Canada for over 100 years and so it is important to us that we have initiatives in place that promote sustainable mining practices," explained Dave Stefanuto, Vale's Vice President of North Atlantic Projects. "Our \$1 billion Clean AER Project, focused on reducing sulfur dioxide emissions by 85% and metals particulate by 40%, is just one example of how innovation and reducing our environmental footprint can go hand in hand." These emission reductions reflect how seriously companies in Canada are taking the call to mine responsibly, particularly when it comes to the environment. As a member of MAC, Vale follows the Towards Sustainable Mining program, a set of principles that focus on the need to mine in the most socially, economically and environmentally sustainable ways. The Clean AER Project is one example that shows the innovation taking place in ensuring Canada's mining industry is at the forefront of mining responsibly.

- From: Facts & Figures 2018, The Mining Association of Canada



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INTERNATIONAL TRADE SHOWS

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DOMESTIC EVENTS

The best way to reach the world at large is to attend international mining exhibitions with MSTA CANADA or let us represent you while we are there. Connect with key mining developers and procurement chain partners as you explore new opportunities to export your products, services and solutions around the world. Contact us for details.



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Mongolia Mining

April 8 - 10
Ulaanbaatar, Mongolia

EXPOMIN 2020

April 20 - 24
Santiago, Chile



CIM 2020

May 3 - 5
Vancouver, Canada

**Argentina, Trade
Mission**

May 9 - 19

**Japan Clean
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Mining Trade
Mission**

End of May

**Europe Trade
Mission**

June 9 - 19



MINExpo 2020

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Las Vegas, USA



**Congreso Minero
Sonora**

October 20 - 23
Hermosillo, Mexico



**MSTA CANADA's
Anual Forum**

November 24 - 26
Toronto, Canada



MSTA CANADA is Canada’s #1 mining service and supply association, and membership ensures you get access to the latest professional development, industry news, compelling business development opportunities and representation for strategic government relations initiatives that support and protect our members.

MSTA CANADA’s mission is to help our members grow and promote themselves within a vibrant and globally competitive mining supply chain. MSTA CANADA members are highly engaged solutions-focused leaders who are recognized as thought leaders and partners in helping to support the mining industry around the world.

Join MSTA CANADA and engage the Canadian mining community, including just some of our members featured here. MSTA CANADA memberships provide all individuals within your organization access to the full suite of member benefits.

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Below is a list of MSTA CANADA members with profiles in this year's Compendium. Members not appearing in this issue may still be viewed on their respective member pages on the MSTA CANADA website at www.mstacanada.ca

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