With 350 years of history and more than 800 mines across the country directly employing more than 363,000 workers, the mining industry is a major player in Canada's economy, contributing nearly 5% of the country's Gross Domestic Product.

Canada’s mining and other natural resource sectors have complex and extensive supply chains that employ a wide range of industries. Canada’s strongest mining-based clusters extend well beyond extraction and manufacturing activities to include exploration, supply and other related industries. The scope of the mining supply and services sector is broad and touches on several knowledge-based or valued-added sectors.

The mining supply and services industry is composed of all the companies that supply goods and services to the mining industry. These range from products, technologies, and services required during early-stage exploration activity, through mine production, refining and smelting, and on to mine closure and site reclamation activities.

According to Info Mine, Canada has the second largest mining supply industry globally, with more than 3,200 firms with the capacity of supplying the entire mining industry spectrum with wide range of goods and services, including safety equipment, machinery and engineering, geotechnical, environmental, electronics, explosives, and financial services, among many others.

Mining is also one of the most developed industry clusters in Canada with extensive S&T networks, financial centres, and a large number of suppliers of services (consulting, financial, legal, environmental, etc.), broad expertise in geosciences, more than 1400 exploration and mining companies, and world-class government laboratories.

Although most Canadian mining suppliers are SMEs, with annual revenues of less than CAN$25 million and with less than 200 employees, there are many large corporations with multinational operations. According to the Canadian Association of Mining Equipment and Services (CAMESE), for every direct job in mining extraction, there are between two to four jobs in mining supply. A quarter of specialized mining suppliers are highly educated professionals, including engineers, geologists, geophysicists, and geochemists.

Mining suppliers are a particularly important part of the innovation process as they develop and commercialize new products or technologies for the mining industry. Over the past few decades, innovation has allowed the Canadian mining industry to become one of the safest industries in the country, to improve its environmental impact and to maintain cost competitiveness. Canadians are among the top global leaders in developing or implementing new technology to find, extract resources from underground mines, or reduce the environmental impacts of the mining process. Workers in the Canadian mining industry are integrating technology in every aspect of their work—robotics, computers, and state-of-the-art equipment. Nowadays, a miner in Canada can remotely operate mining equipment located thousands of meters underground while being at a workstation above ground (or in another city).

On behalf of Canada’s Trade Commissioner Service, we hope that this first edition of the Canadian Mining Suppliers Footprint in Mexico will assist mining companies with operations in this market.

The Canadian companies listed in this footprint have an existing presence in Mexico and are first class suppliers that offer innovative solutions and technologies to address the needs of a 21st century mining industry.

Sincerely,

Alexandre B. Cérat
First Secretary (Trade), Embassy of Canada in Mexico
Location of the Canadian Mining Supply Industry

More than half of Canadian mining suppliers are located in Ontario and British Columbia, followed by Alberta, Quebec, Saskatchewan and Manitoba.

Ontario
With over 140 years of experience in the mining sector, Ontario has built a first-class mining industry and outstanding reputation. Today, Ontario's mining sector is a CAN $10 billion plus mining innovation powerhouse employing over 40,000 people.

Ontario's mining sector is a leader in innovation, technology and safety. The cluster is one of the most concentrated in the world and its expertise covers the full range of mining supplies and services, offering a full range of solutions that go from mine exploration and operation, to equipment and technology, security and safety, environmental studies and site reclamation. In fact, Ontario is a world leader in automated mining equipment, satellite imaging, mining research and rehabilitation.

Ontario suppliers service both the domestic and international markets and the Province is a globally recognized centre of mining innovation. Backed by a supportive legislative framework, exceptional regulations, R&D and a proactive export assistance climate, Ontario's mining suppliers set the standards when it comes to mining technology, productivity, and environmental and safety innovations.

The Ontario North Economic Development Corporation estimated the total value of the mining supply sector in Northern Ontario at $5.6 billion in annual revenue, employing 23,000 people.

Toronto, Ontario
Toronto has become a key hub of mining venture capital. The city has developed a significant competitive advantage in mining finance by developing a unique pool of expertise in the exploration and early-stage development of mineral resources. The pool consists of financial institutions such as the Canadian Stock Exchange, analysts, consultants, law firms, more than 400 mining and exploration company branches and 30 mining headquarters with several hundred mining suppliers.

Sudbury, Ontario
Sudbury is located in Northern Ontario, and over the past decade it has emerged as a centre of knowledge in underground hard rock mining, becoming a source of mining expertise and technology, supported by the rise of an organized Northern Ontario mining technology cluster focused on this mining industry segment.

There are more than ten mines operating in the area, including major facilities of Vale and Xstrata, surrounded by a growing network of mining supply and technology firms, contributing with almost CAN $4 billion to the local economy and employing over 13,000 people. The city is also home to a significant concentration of mining education and research centres.

British Columbia
British Columbia has 150 years of solid mining history and the region is recognized as a first-class center of mining, metallurgy, environmental engineering, mine safety, and geosciences.

The mining supply sector in British Columbia contributes with CAN $1.3 billion to the national GDP and employs over 16,000 people.

British Columbia service suppliers offer world-class expertise in the full range of mining-related areas. British Columbia is home to more than half of Canada's mining exploration firms, making it the largest concentration of exploration firms in the world. There are also a number of supporting institutions such as: the Mining Association of B.C., the Association for Mineral Exploration of British Columbia, the B.C. Institute of Technology and the University of British Columbia.
**Vancouver, British Columbia**

Vancouver has an established community of mining firms, consultants, suppliers and service providers. Around 2,400 firms are involved in supplying British Columbia’s mining exploration industry.

**Alberta**

Alberta is home to a wide range of mining industry suppliers, the third-largest number in Canada, providing services ranging from environmental, engineering and geotechnical consulting to drilling equipment.

**Quebec**

The mining industry has a substantial role in Quebec’s economy, which has allowed the industry’s supply sector to be known globally for its technical expertise and sustainable approach, becoming an asset worthy of export. Quebec’s Mineral Industry Cluster gathers a large number of firms that supply the mining industry, of which close to half are located in the Montreal region.

**Saskatchewan**

Saskatchewan mining industry is recognized as one of the most technologically advanced in the world and has a strong and innovative support sector integrated by a number of top rated suppliers. Saskatchewan companies are supplying everything from underground mining vehicles to centrifuges and many other goods and services to support the mining industry, including engineering, procurement and construction management services (EPCMs).

**Manitoba**

Manitoba’s mining sector has had a steady growth in recent years, with an average annual growth of 8.5% in the 2007-2012 period. There are approximately 40 companies active in mineral exploration and about 20 major producers active in the industrial minerals sector in Manitoba. Two mining companies employ approximately half of the workforce in this sector. This mining presence has boosted Manitoba’s expertise in mining supply.

**Mining in Canada**

![Map of Canada showing mining locations](image)

Source: Natural Resources Canada, 2009
The Mining Sector in Mexico

Mexico has over 500 years of mining tradition and this industry plays a very important role in the country’s economy. The country has an enormous geological potential, vast and varied mineral resources, and first-class reserves and deposits, which has enabled Mexico to become an important player in the global mining scenario.

Production-wise, Mexico is the 14th largest mining player in the world and the country is the world’s top producer of 17 minerals: silver (world’s largest producer); bismuth and fluorite (2nd most important); celestite and wollastonite (3rd most important); cadmium, lead, diatomite and molybdenum (5th most important); gold, zinc and gypsum (7th most important); barite and graphite (8th producer); salt (9th producer); copper (10th most important); among others such as arsenic, lead and zinc.

According to the latest economic census by the National Statistics and Geography Institute (Instituto Nacional de Estadística y Geografía, INEGI), 2,791 production units/mine sites operate in the Mexican mining industry creating 338,000 direct jobs and 1.7 million indirect jobs. Up to Q3 2013, mining contributed 0.9% to Mexico’s GDP, and the industry grew at an average annual rate of 11.8%, in 2010-2012, one of the most dynamic sectors in the Mexican economy.

According to the Mexican Geological Survey (SGM), 70% of the national territory holds mineral reserves, and from this percentage, only 30% has been fully exploited. Around 320 companies are currently involved in more than 800 exploration projects throughout the country.

Foreign Direct Investment and Canadian Participation

Mexico has consolidated as an important mining investment destination. Mexico received a record US$35.2 billion in foreign direct investment in 2013, a higher figure than in 2012 (US$15.5 billion). The Bank of Mexico forecast that FDI will exceed $26 billion this year and US$30 billion in 2015.

Mexico plays a key role in the global mining industry, in terms of revenue, production and reserves, which makes it a key destination for foreign mining investment, ranking fourth in the world as a recipient of investment for exploration, with 6% of total investment in this field. Approximately 70% of all mineral exploration projects in Mexico are undertaken with foreign capital.

According to the Mexican Ministry of Economy, in recent years, the mining sector has reached record high investment levels. From 2007 through 2012, it reached US$25.6 billion dollars, and it is estimated that in 2013 alone, total investment reached more than US$8 billion.

Despite the impact of the fiscal reform on the mining industry, a number of conditions remain favourable to FDI:

- There is an advanced regulatory framework, which provides legal certainty and security, with clear rules and efficient administrative processes. The regulatory environment grants companies renewable mining production concessions for periods of up to 50 years and allows 100% participation of foreign capital in the exploration, development and production of minerals. According to the Fraser Institute; 2013 Survey of Mining Companies, Mexico is considered as having the third best mining policies in Latin America in terms of best practices in industry regulation, only behind Chile and French Guiana.
- Mexico has a vast portfolio of mining projects to draw national and international investors.
- Promotion of strategic partnerships between sector companies and mining concessionaires to encourage the use of resources and develop exploration through cost-sharing and joint investment.
- Extensive technical and professional labour base.
- The production chains necessary to further develop the activity.
The Mexican Government, in its National Development Plan 2013-2018, has established policies aimed at increasing competitiveness and investment in the mining sector, strengthening the country as an investment destination, driving the creation of clusters and streamlining the issuance of mining concession titles.

There are 293 foreign companies operating mining projects in Mexico, from which 203 are Canadian mining companies. Canadian mining companies account for 69.3% of total foreign presence in the mining sector in Mexico.

According to the General Directorate for Mining Development of the Ministry of Economy, there are 840 projects developed by foreign companies in Mexico, from which 639 are from Canadian investment, thus placing Canada with more than 75% of the total FDI in Mexico’s mining sector. Of these projects, 22 are under development, 486 are in exploration stages, 49 are production centers and 81 are classified as "suspended". These projects are mainly located in the states of Sonora, Chihuahua, Durango, Sinaloa, and Zacatecas, and are focused on the extraction of Copper, Gold, Silver and Zinc.

From 1999 through 2011, Canada has invested approximately US$11.7 billion in Mexico (more than 50% in new investment and the rest in profit reinvestment and distributed branch earnings). From this amount, the mining sector represented 44% of Canadian investment in the country, totaling US$4.8 billion, a figure that exceeded investment in manufacturing industries (US$3.5 billion) during the same period.
## Canadian Mining Suppliers

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| 3 | Activation Laboratories - Actlabs | <a href="http://www.actlabs.com">www.actlabs.com</a> |
| 4 | ADI Group | <a href="http://www.adisystemsinc.com">www.adisystemsinc.com</a> |
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| 8 | Ausenco Engineering | <a href="http://www.ausenco.com">www.ausenco.com</a> |
| 9 | B &amp; D Manufacturing | <a href="http://www.bdmfg.com">www.bdmfg.com</a> |
| 10 | Bestech | <a href="http://www.bestech.com">www.bestech.com</a> |
| 11 | Boréalis | <a href="http://www.boreal-is.com">www.boreal-is.com</a> |
| 12 | Breaker Technology - BTI | <a href="http://www.rockbreaker.com">www.rockbreaker.com</a> |
| 13 | CAE Mining | <a href="http://www.cae.com">www.cae.com</a> |
| 14 | Cypher Environmental | <a href="http://www.cypherenvironmental.com">www.cypherenvironmental.com</a> |
| 15 | Eagle Mapping | <a href="http://www.eaglemapping.com">www.eaglemapping.com</a> |
| 16 | Energold | <a href="http://www.energold.com">www.energold.com</a> |
| 17 | Flairbase | <a href="http://www.flairbase.com">www.flairbase.com</a> |
| 18 | Fordia | <a href="http://www.fordia.com">www.fordia.com</a> |
| 19 | G4Drilling | <a href="http://www.g4drilling.com">www.g4drilling.com</a> |
| 20 | G.L. Tiley &amp; Associates | <a href="http://www.tiley.on.ca">www.tiley.on.ca</a> |
| 21 | GEM Systems | <a href="http://www.gemsys.ca">www.gemsys.ca</a> |
| 22 | Geophysique TMC | <a href="http://www.geofisicatmc.com">www.geofisicatmc.com</a> |
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AcmeLabs Ltd.
www.acmelab.com

AcmeLabs is a full service, commercial lab that provides mineral preparation and laboratory testing services for mining, minerals exploration and research, and operates on a global level with 26 offices in 11 countries; focusing entirely upon the minerals testing business. Offers inorganic chemical analysis of geological materials including the analysis of water, vegetation, soil, sediment and rock for single and multi-element determinations using geochemical, wet-assay and fire-assay test methods. Is a leader in minerals analysis methodology and instrumentation and operate one of the largest laboratories in the world.

Acme has always been known for innovation and quickly embracing new technology. This, along with a strong commitment to providing analytical methods tailored to exploration geochemistry assured Acme’s success.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Mineral Preparation and laboratory testing services

Services for mining, minerals exploration and research.

AcmeLabs routinely processes a wide range of sample types including, rocks, drill core, drill cuttings, soils, stream sediments, till, clay and water. Acme also provides a wide range of tests including fire assay for precious metals to inductively coupled plasma (ICP) and ICP-Mass spectrometry. It routinely handles precious metals testing, base metals testing, uranium analysis, rare earth element analysis as well as many others.

MEXICO

Sales/Local Presence: Subsidiary. Five Preparation Laboratories in Guadalajara, two in Sonora and one in Durango.

Years in Mexico: Since 2007

Application: Mineral preparation and laboratory testing services for mining, minerals exploration and research.

CONTACT INFORMATION

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Activation Laboratories Ltd. is a commercial analytical laboratory that performs high quality analysis for many industries across the world, including geochemical, petroleum, industrial minerals, forensic, pharmaceutical & biotechnology, environmental & occupational health, agricultural and materials testing areas. The company has 30 laboratories in 14 countries. ISO 9001-2008 Certified.

Globally, Actlabs facilities operate as independent entities, allowing for quick, local solutions to customer problems.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

**Analytical Laboratory Services**

Actlabs is a commercial laboratory serving the mineral industry since 1987. With a global and local presence, Actlabs can assist at all stages of the mining process, covering the entire life cycle from grassroots testing to mine operation were we can set up and/or run on-site lab facilities.

Routine analysis include assays for precious and base metals, fire assay (AAS or Gravimetric) and ICP. Other services include: trace multi element geochemistry analysis, lithogeochemistry for exploration and research, biogeochemistry for humus and vegetation, heavy mineral concentrates, hydrogeochemistry for environmental baseline studies (EIS) and routine monitoring, metal speciation, soil gas hydrocarbons (SGH), selective extractions including enzyme leach, bioleach, sodium pyrophosphate, hydroxylamine, sodium acetate and sequential extractions, mineral identification and quantification by x-ray diffraction (XRD), mineral liberation analyzer (MLA), quemscan, isotopic analysis, geochronology, petrographic analysis, spatial analysis using laser ablation high resolution ICP-MSs, SEM with EDS and backscatter analysis, acid base accounting (ABA).

**MEXICO**

**Sales/Local Presence:** Subsidiary

**Zacatecas and Chihuahua**

**Years in Mexico:** Since 2010

**Application:** Sample Preparation, Fire Assay (AAS and Gravimetric), ICP-OES

**CONTACT INFORMATION**

**MEXICO**

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AssayNet Inc.
www.assaynet.com

AssayNet is an information technology company specializing in LIMS (Laboratory Information Management Systems) for minesite and environmental labs. AssayNet’s development team has leveraged its experience in mining and minesite assay labs to offer a total solution for managing lab data. AssayNet has built its success on a thorough knowledge of the industry, a high degree of professionalism, and a strong commitment to its clients. LIMS.NET is AssayNet’s flagship system. Using a server-centric architecture, LIMS.NET is robust, scalable, and easy to use. The program offers high-end features to assay labs such as web access, barcoded sample tracking and integrated QA/QC. LIMS.NET can bring immediate benefits to laboratories.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

LIMS System / Software for Mining

<table>
<thead>
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<th>Laboratory Information Management System for mine site labs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssayNet’s flagship product is a client/server LIMS built specifically for environmental and minerals laboratories. Robust and highly scalable, the program was written to conform to the ASTM level II specification for LIMS.</td>
</tr>
<tr>
<td>AssayNet LIMS contains all the features expected in an industrial-strength LIMS, from sample reception, logging and preparation through analysis and reporting, the program has been designed to work the way the customers do. Its intuitive, menu-driven interface is easy to learn, yet feature rich, providing access to a complete QC program, quotations and invoicing, stock levels and inventories, sample storage and more.</td>
</tr>
<tr>
<td>The program is fully bilingual in English and Spanish, and the two languages can run in parallel, using the same data, in one location. This makes AssayNet LIMS an ideal choice for multinational companies operating in foreign countries.</td>
</tr>
</tbody>
</table>

MEXICO

Sales/Local Presence: Sales Representatives Mexico City

Years in Mexico: Since 2006

Application: Operating mines, and mineral labs

CONTACT INFORMATION

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Bestech

www.bestech.com

As a division of the Boudreau-Espley-Pitre Corporation, BESTECH was created to address the need for a group dedicated to system integration and industrial automation. BESTECH, a prominent Canadian firm with a trusted team of professionals, delivers engineering, automation and software development services to the international mining industry.

BESTECH’s strategy is to provide innovative and cost effective solutions to meet our clients’ needs. Our commitment to excellence is manifested in the successful development and implementation of an integrated project management approach, automated engineering design standards, and our everyday communication with new and existing clients.

BESTECH client base includes the mining industry, pulp and paper, forestry, oil and gas, automotive, manufacturing, municipal, commercial and other industrial plants.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Services

Bestech projects are always completed in a professional and timely fashion. Our team of engineers, programmeers, technologists and technicians also share our values. Efficacy is the essence when taking projects to completion “on time, on budget, and on spec”. Presenting clients with outstanding quality documentation and above standards programming are just a few of our product delivery guarantees.

Services: air quality management, automation, business process management, electrical safety, engineering, EPCM, fire investigations, panel building, power systems, information technology / information services.

Products

BESTECH also offers the following innovative products designed to address operational challenges related to efficiency, energy consumption, environmental sustainability and employee safety.

PORTAULS® is process analysis software designed to help businesses address and meet critical and demanding needs at all levels of the organization.

NRG1-ECO™ is a mine-wide energy management solution, used for “Ventilation-on-Demand” and other energy optimization applications, that greatly reduces a mine’s energy consumption while maximizing productivity, profitability and worker safety.

AQM™ is a web-based ambient air-quality monitoring system that offers a variety of options for acquiring and distributing data.

RopeInspector™ is a system that automates regulated visual hoist-rope inspection by providing 360-degree coverage at full speed capturing potential rope defects in real time enabling increased hoisting utilization, maintenance time and worker safety.

MEXICO

Sales/Local Presence: Exclusive Distributor
Guadalupe, Zacatecas

Years in Mexico:

Application: Mine operation, safety

CONTACT INFORMATION

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sales@bestech.com
CSR Solutions

Our CSR solution and consulting services is a one-of-a-kind integrated social and environmental management system. Our flexible and high-performance software optimizes the business processes of clients working in the extractive sector and ensures the transparency of their activities in the communities. We help them meet their business goals while respecting their social and environmental commitments. Our CSR solution has two components: BoréalisIMSTM and Boréalis "On the Ground".

Boréalis IMS Software

It includes several personalized products and services that meet the social and environmental performance needs of our clients.
- Modules adapted to their needs and the particularities of their projects throughout the world.
- Tailor-made support services, which include defining business processes, implementing and integrating them, as well as providing support, customer services and adapted training for various types of users.
- Mobile applications that enable the remote acquisition of data from the field using BoréalisIMSTM.

Boréalis "On the Ground"

Is the most recent addition to our CSR solution and is the perfect complement to our software suite. This service is maintained by a team of experts and can be deployed quickly in any type of client-project context. The cutting-edge tools offered by this service allow for the rapid and flawless entry of crucial data into our BoréalisIMSTM system.

CSR Training & Education Services

Our employees and the managers of our clients can benefit from CSR training services to acquire the knowledge and skills they need to use the Boréalis IMSTM application to its full potential. Practical CSR training services on our corporate social responsibility (CSR) and environmental performance solution.

MEXICO

Sales/Local Presence: Sales office (Subsidiary)
Years in Mexico: Since 2010
Application: Mine operation, energy projects

CONTACT INFORMATION

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Flairbase Inc.  
www.flairbase.com

Flairbase offers the mining industry, state-of-the-art software products and services, in the areas of: mine design, resource evaluation and interpolation, drilling and blasting, scheduling, document management, emissions control, mine production data entry and reporting, mine safety and much more.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

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<td>Amine</td>
<td>Amine is the original mine design software for the AutoCAD platform. Its user-friendly visual interface allows you to manage your drawings, design your layouts, evaluate your resources, work in 3D or with 2D sections, design your drilling and blasting layouts, perform automated surveys and much more.</td>
</tr>
<tr>
<td>SIMS</td>
<td>SIMS is a mine production management system that keeps track of all your mining activities, equipment, locations, people and consumables, allowing you to take control of your costs and resources.</td>
</tr>
<tr>
<td>MineSafe</td>
<td>Keeps track of all safety incidents, issues, causes, and statistics; more importantly, it allows you to take action by assigning safety responsibilities and keeping track of them.</td>
</tr>
</tbody>
</table>

MEXICO

Sales/Local Presence: Direct Sales from Canada and Distributor Durango

Years in Mexico: Since 2010

Application: Mine design and mine construction

CONTACT INFORMATION

CANADA

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info_es@flairbase.com

Shawn Romkey, Geologist  
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Geotic inc.
www.geotic.ca

Provides software for geological analysis. Geotic Inc. designs and produces software to facilitate the geological analysis and help respond to the ever increasing pressure from other sectors with computerized tools. Geotic products are user-friendly and intuitive Windows environment (XP to Windows 7), multilingual (English, French, Spanish and Portuguese), relational database (Ms Access, SQL), and provide complete validation of all data entries. Its three software programs allow us to offer specialized and cutting-edge services that cover various areas of application to meet customers wide-ranging needs.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

GeoticLog | GeoticLog allows the recollection of perforation data. Features as: Use of standard and personalized dictionaries, descriptions for six geological levels plus RQD, magnetism, assaying, geochemistry and geophysics, up to three coordinate systems, zone weighted average calculations, import/export of data, export to Gemcom, printing of high quality logs, integration and linearization of drilling core photos.

GeoticGraph | GeoticGraph links up with the data base of GeoticLog and allows the outline of drilling information. Features as: graphic symbols for structural elements (fault, schitosity, joint, etc.), optimized to create 3D VDML GeoticCAD drawings, high quality drawings, features can be adapted to all requirements, creation of 3D drawings in DWG and DGN format (AutoCAD and Micro Station software not required), creation of 2D drawing formats (JPG, TIF, PNG, EMF, GIF, BMP, WMF, TGA), colour codes relating to core descriptions, possibility of including graphs for geophysics and assaying.

GeoticCAD | GeoticCAD reads and adds the final details to the graphics created in GeoticGraph: simple movement between the 3 coordinate systems (World, Measure and Plot), export to image format, export to PDF format respecting a scale, export to DWG and DGN formats (AutoCAD and Micro Station software are not required), automatic interpretation of the topography and the bedrock.

MEXICO

Sales/Local Presence: Direct Sales from Canada

Years in Mexico: Since 2004

Application: Exploration

CONTACT INFORMATION

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HLS Hard-Line Solutions  
www.hard-line.com

Hard-Line is a leading supplier of remote controls to mining and other heavy industries. Hard-Line develops its products from the ground up, using years of experience in mining, electronics, electrical design, and mechanical design. Hard-Line develops new and innovative products that save lives while increasing efficiency in mining and other industries. These systems can be customized in order to meet the specific needs of clients.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Control Systems**
TelereMOTE control: TeLeo™ Systems allows tele-operation of heavy machinery (e.g., rock breakers, drills, excavators, lhds, wheel loaders, dozers) from a remote control station, allowing the operator to be totally out of the proximity of danger. Radio remote control: Hard-Line’s Muckmaster™ Radio Remote Control System allows operation of heavy machinery (e.g., lhds, excavators, drills, wheel loaders, excavators, rock breakers) from a distant location, for underground mining. Locomotive control: this unit feature high continuous ratings in compact, durable packages. It incorporates technology to perform simultaneous control of pump and traction system. Brake control: used when a remote controlled machine is stuck in the stope with the brakes applied and no way to release them. Each machine is equipped with a separate hydraulic pumping system and a hydraulic circuit to release the machine’s brakes. Generic control: heavy-duty generic open/close controllers and on/off controllers. These controllers (OCOO Controller) can be used on gates, traffic control lights, conveyors, fans, crushers etc.

**Video System**
Farsight™ portable camera system that provides video for conventional radio remote control systems. The extended line of sight increases the range allowing heavy machinery to be maneuvered around corners or farther into a draw point; Tram Cam Quad and Tram Cam Single are an excellent on board quad camera system that can be used on any vehicle in a mine, covering all the blind spots an operator experiences; and Blaxtair® is an intelligent pedestrian detection camera which helps prevent collisions between machinery and pedestrians, it detects any obstacle and recognizes if it is a pedestrian or not by analyzing its shape.

**Shaft Guides**
Hard-Line’s shaft guides are cut, milled and drilled to the mine’s specifications. The guides are made from Douglas-fir which is recognized for its strength and durability.

**Safety Systems**
Proximity detection and entrance warning.

**Vehicles**
Hard-Line LP401 is remote control operated low profile loader (Skid Steer) that can be used in a variety of restrictive areas where a normal man-operated machine cannot operate, and the CX4800™ exploration vehicle, a remote controlled vehicle that can be sent into areas that are too dangerous for people or other machinery.

**MEXICO**

Sales/Local Presence: **Exclusive Representative Coahuila**

Years in Mexico: **Since 2002**

Application: **Mine operation**

**CONTACT INFORMATION**

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Intergraph Corporation
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Intergraph is a leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph’s industry-specific software to organize vast amounts of data and infuse the world with intelligence to make processes and infrastructures better, safer, and smarter. The company’s software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Enterprise Engineering Software
Intergraph Process, Power & Marine (PP&M) is the leading global provider of enterprise engineering software to the process, power, and marine industries. Intergraph engineering solutions increase productivity and accelerate projects by providing the full design, construction, materials, and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital project life cycle management (cPLM) of large-scale process, power, marine, and offshore projects. Industries served: metals & mining, chemical, consumer goods, nuclear & power generation, marine, offshore & shipbuilding, nuclear & power generation, oil & gas and pharmaceutical.

Geospatially Powered Solutions
Intergraph Security, Government & Infrastructure (SG&I) enables governments and businesses to protect people, high-value assets, and infrastructure, as well as manage and analyze incidents. Intergraph geospatial software integrates, georeferences and analyzes large volumes of data from multiple sources to create, display and distribute actionable information. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I’s U.S. federal and classified business.

MEXICO

Sales/Local Presence: Subsidiary in Mexico City National Coverage
Years in Mexico: Since 1982
Application: Mining Operations, Maintenance and Infrastructure

CONTACT INFORMATION

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Jannatec is manufacturer of lighting and communication technologies for underground applications, offering products designed to make safer and more productive mines.

The special attention of Jannatec to safety and functionality combined with the development of new products makes it a leader in its industry in Canada and abroad.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

The One  
The ONE is Jannatec’s affordable new cordless cap lamp. Its re-designed shell and lithium polymer battery makes it half the weight of the standard Johnny Light cap lamp. Also available is The ONE-X, a premium product line that features a battery with cell-balancing technology for longer battery life. The ONE features dependable Johnny Light characteristics combined with exciting new enhancements. Its advanced battery system provides brightest ambient light on the market, battery capacity 14-15 hours (ONE-X battery life is 17 hours), the One-X offers cell balancing technology for longer life and superior safety.

G3 Turbo  
The Johnny Light G3 Turbo, digital radio cap lamp brings together the best of Johnny Light with digital technology and user-friendly physical characteristics to provide the best possible personal lighting and communications experience. Streamlined contours, lighter weight, analog and digital capability and a range of attractive features will make this radio cap lamp the choice of today’s modern mines. Analog and digital capability: send and receive data, organize files, site-to-site communication. With new lithium polymer battery technology offers up to 16 hours of life.

G2 Johny Light  
Radio cap lamp with a redesigned radio/battery unit. The new lithium ion batteries /Kenwood radio pack combines ergonomics and compatibility in the following features: batteries have a longer cycle of life, Compatible with Kenwood, Motorola, and other radio and improved strain relief and lighter weight.

G2 Cap Lamp  
Cap lamp with new battery pack, lithium ferro phosphate (LiFePO) batteries. The lithium power packs are 35 percent lighter yet have been proven to deliver at least 1,000 cycles which is double the life of the Nickel Metal Hydride battery packs. We have doubled the life of the cap lamp without doubling the cost and are just as safe.

The Johnny Light Jr also features the same industry-leading headlamp as the Johnny Light. It includes the first focusable LED light along with a much brighter ambient light, the patented angled hood reflector which projects the light both forward and downward to make walking safer, and an LED bulb that lasts an amazing 10,000 hours.

MEXICO

Sales/Local Presence:  
Distributor in Coahuila covering Coahuila, San Luis Potosi, Chihuahua, Sonora and Jalisco

Years in Mexico:
Application: Safety

CONTACT INFORMATION

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Motion Metrics provides advanced monitoring solutions for mining operations worldwide. Its growing product portfolio addresses increasingly complex challenges (such as missing tooth detection, tooth wear monitoring, rock fragmentation analysis, payload monitoring, and proximity detection) in mining operations through the use of proprietary machine vision and sensor-based technologies.

With systems deployed in over 50 large-scale surface mines around the globe, Motion Metrics is well-known for its innovative approach to solve these challenges. Motion Metrics backs all their solutions by providing comprehensive support, from on-site installation and commissioning, to scheduled maintenance and performance reports.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
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<tr>
<th>Product</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ShovelMetrics</td>
<td>A suite of monitoring solutions that improves safety and enhances productivity for mining shovels and excavators. Missing tooth detection, tooth-wear monitoring, rock fragmentation, proximity detection and payload monitoring.</td>
</tr>
<tr>
<td>LoaderMetrics</td>
<td>Camera-based missing tooth detector that monitors the condition of the bucket teeth and informs the operator of possible tooth breakage incidents in real-time. The system uses custom-designed image processing and artificial intelligence algorithms to continuously track the status of each tooth.</td>
</tr>
<tr>
<td>PortaMetrics</td>
<td>Is a point and shoot portable tablet that provides fragmentation analysis without the need for any reference scaling object. A 3D imaging sensor is combined with a powerful processing unit to provide accurate fragmentation information in a matter of seconds. No assumptions are made about the shape of the scene or the angle between the camera’s line of sight and the scene.</td>
</tr>
<tr>
<td>BeltMetrics</td>
<td>An all-in-one solution that continuously monitors and provides key performance statistics for conveyor belts. The solution senses vital parameters such as size distribution, volume flow, and mass flow in real-time using mostly non-contact sensors. It also allows plant managers and operators to access the data of multiple BeltMetrics systems via robust network connectivity.</td>
</tr>
<tr>
<td>MetricsManager</td>
<td>Centralized equipment management data server solution to keep you connected with your equipment from anywhere. MetricsManager utilizes a mine’s existing IT infrastructure to connect directly to any Motion Metrics systems, making critical safety and productivity information accessible throughout the mine. The log data from the MetricsManager can be easily downloaded, printed, or e-mailed. When productivity benchmarks are not met, customized alerts can be figured to notify the appropriate personnel.</td>
</tr>
</tbody>
</table>

**MEXICO**

<table>
<thead>
<tr>
<th>Sales/Local Presence:</th>
<th>Exclusive Distributor Sonora  Direct Sales from Canada</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years in Mexico:</td>
<td>Since 2011</td>
</tr>
<tr>
<td>Application:</td>
<td>Mine operation</td>
</tr>
</tbody>
</table>

**CONTACT INFORMATION**

**MEXICO**

Pedregal No. 21  
Col. San Luis,  
Hermosillo, Sonora,  
Mexico

Jorge Álvarez, Distributor  
662 213 6114  
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Technical Sales Manager  
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nick@motionmetric.com  
info@motionmetrics.com
Pason Systems Corp.  

**www.pason.com**

Pason is a leading global provider of specialized data management systems for drilling rigs. Our solutions, which include data acquisition, wellsite reporting, remote communications, and web-based information management, enable collaboration between the rig and the office. It’s our mission to design innovative technology that’s built for demanding rig conditions. We accomplish this by developing highly-mobile, rig-tough products and by deploying the industry’s most advanced service organization to the rig more efficiently than any of our competitors.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

| Data Hub | A highly secure web application that collects, stores, and displays drilling data, reports, and real-time information for remote access. |
| Hardware | Pason has developed robust products that are easy to install, disconnect, transport, and reconnect during rig moves. When installed, our products are dependable, simple to use, and easy to maintain. Electronic Drilling Recorder: A robust system of computers, instruments, and monitoring equipment networked around a drilling rig that provides data to personnel, both on the wellsite and at the office. Pit Volume Totalizer: A volume monitoring system that measures, calculates, and displays readings from the mud system on the rig to alert the rig crew of impending gas kicks and lost circulation issues. Electronic AutoDriller: An automatic drilling system that maximizes rate of penetration by monitoring multiple drilling parameters and adjusting weight on bit. Gas Analyzer: A system that detects changes in relative volumes of hydrocarbon gases at the surface without complex offline analysis and instrumentation. On demand, it also provides real-time compositional gas analysis of hydrocarbons and CO2. Torque and Tension Sub: A sensor that provides accurate and reliable measurements of torque and hook load by measuring the actual forces being exerted on the drill string at surface. Electronic Choke Actuator: A device that provides a means of remotely controlling the choke valve from the doghouse. Hazardous Gas Alarm System: Detects the presence of combustible gases while providing visible and audible alerts. Electronic Service Recorder: A robust system of computers, instruments and monitoring equipment networked on a service rig to provide digital information to personnel both on the wellsite and at the office. SideKick: A small rig floor computer that allows for data entry and displays information conveniently around the rig. Rig Display: A ruggedized, touch screen computer specifically engineered for use outdoors and in hazardous locations. Pason Rig Display enables you to access services and applications on and around the rig floor. |
| Software | Communication between the rig and the office can be challenging. However, with Pason’s line of specialized software applications, communication and collaboration is made easy. Whether you want to improve performance, analyze data, or integrate data with other programs, Pason has the application for you. Enhanced Pit Volume Totalizer, Directional System, Reporter on Drilling Rigs and Downloads. |

**MEXICO**

**Sales/Local Presence:** 3 Sales Offices (Subsidiaries)  
Reynosa, Poza Rica  
and Villahermosa

**Years in Mexico:** Since 2001  
**Application:** Surface Logging System for Drilling Mine operation

**CONTACT INFORMATION**

**MEXICO**

Pason de Mexico S.A. de C.V.  
20 de Noviembre No. 502  
Col. Cazones,  
93230, Poza Rica, Veracruz, Mexico  
Rivera Verde No. 502  
Col. Riveras de Rancho Grande,  
88560, Reynosa, Tamaulipas, Mexico

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**CANADA**

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403 301 3400  
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Pyott Boone Electronics Canada Ltd.  
www.pbegrp.com

The PBE Group, founded over 40 years ago, is a global electronic engineering and manufacturing company serving the mining, tunneling, industrial and contract manufacturing industries.

PBE is an industry leader for safety and productivity systems, specifically providing safety, communications, monitoring and control systems to job sites around the world.

With offices in seven countries and strategic partners in over 30 other countries, PBE is the only true single source integrated solution for safety and productivity systems and is the only company able to provide timely service and engineering support globally.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Personnel and Equipment Tagging and Tracking

The PBE mine-wide tracking and tagging systems are capable of determining the location of equipment, personnel and vehicles. Stationary and portable tag readers (wireless or wired) are available for transmitting data over either leaky feeder communication systems (VHF or UHF) or over existing infrastructure without the need to install a new backbone. PBE’s tracking system can be used with an emergency preparedness system, automatic personnel registration or as an access control system.

Monitoring and Control Systems

The PBE MineBoss™ 2.0 mine wide monitoring and control system (MCS) was engineered to centrally monitor and control all aspects of a mining operation, including displaying the location of miners and the status of equipment. The mine monitoring and control systems (MCS) allow for continuous monitoring of priority systems such as gas levels, air flow, ventilation fans, water pumps, power status and other systems critical to the operation of your mine. PBE mine monitoring solutions allow PBE products or third party sensors to be utilized for continuous monitoring and immediate response to critical and essential mine safety functions.

Communications

PBE’s leaky feeder system can be tailored to specific site requirements to provide the best radio coverage and data communications. The leaky feeder system is a mine radio system that can provide complete communications coverage for your mine site, including above ground site linking. PBE’s new BDA-4 amplifier not only boosts the signal along the cable but can be used as a tag reader, modem and in-line controller. Multi-platform communications adaptors allow the BDA-4 to perform as part of an atmospheric monitoring system and a mine-wide monitoring system PBE provides a wide range of radio options for site, surface and underground linking and mine radio communications, including Motorola, Tait, and Kenwood two-way radios.

PBE also offers PageBoss paging telephones that provide clear and undistorted communication across the entire pager phone system with rugged enclosures, handset hangers and mounting brackets.

MEXICO

Sales/Local Presence:  
Comunication, Tracking and Monitoring Equipment,  
Sales Representative covering  
Mexico City, Zacatecas, Sonora, Chihuahua, Durango, Guanajuato, Puebla and Oaxaca.

Years in Mexico:  
Since 1996

Application:  
Mine operation - communication and tracking

CONTACT INFORMATION

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Col. Villa de las Flores,  
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Camilo Montiel, Representative  
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mexico@pbegrp.com

CANADA

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LOC 1A0, Canada

Cindy Chesney, General Manager Latin America  
905 442 4917  
cchesney@pbegrp.com
Redline Communications is the leading manufacturer and innovator of rugged broadband wireless products with Virtual Fiber™ technology used worldwide to deliver high speed, real-time connectivity for critical machine-to-machine (M2M) communications and distributed applications anywhere.

Since 1999, Redline’s innovative Virtual Fiber™ technology has been used by oil and gas companies to connect their digital oil fields; by the military to rapidly deploy secure networks; by governments to increase public safety and improve services; and by telecom service providers to bring dedicated premium business access.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Technology Systems**
- Redline Virtual Fiber™ solutions deliver the most powerful, rugged and secure wireless networks on the planet.
  - Ellipse System: the RDL-3000 Ellipse manages all security, traffic scheduling and Quality of Service (QoS) functions for Redline’s extensive family of outdoor wireless TCP/IP remote data terminals.
  - Edge System: the RDL-3000 Edge provides secure reliable wireless transport for challenging fixed point-to-point (PTP) and point-to-multipoint (PMP) deployments.
  - eLTE-MT System: the RDL-3000 eLTE-MT provides secure reliable wireless transport for very harsh industrial sites including ATEX-rated hazardous zones.
  - RAS-Elite: the portable RDL-3000 RAS-Elite provides secure wireless transport directly to temporary field offices, rigs, trucks and other semi-permanent locations.
  - RAS-Extend: the RDL-3000 RAS-Extend series provides secure reliable wireless transport directly to land vehicles, marine vessels, and floating platforms in motion.
  - Enterprise System: the RDL-3000 Enterprise provides secure reliable high-speed wireless transport for dedicated access, trunking and mid-range backhaul applications. It includes fine Quality of Service (QoS) controls and full VLAN support to configure multiple Service Level Agreements (SLAs) that enable simultaneous transport of combined data, voice and video services.
  - RDL-2000 System: the RDL-2000 family solves middle-mile challenges by providing cost-effective, reliable point-to-point (PTP) connections in the most challenging conditions.
  - RDL-5000 System: the RDL-5000 is a microwave system with an integrated gigabit Ethernet switch that provides the highest point-to-point (PTP) pure packet capacity and longest range in its class. Operating in the 6 GHz to 38 GHz licensed bands, the all-outdoor RDL-5000 delivers a throughput of up to 800 Mbps, or 400 Mbps in full-duplex mode, without compression making it ideal for next generation 3G and 4G / LTE network backhaul.

**Connect**
The Redline Connect series is the fastest, most reliable and versatile automation/SCADA transport solution available anywhere. Connect-OW, Connect-OWS and Connect-IWS.

**Redline Peripheral Module Family**
The RPM Family is a complete line of industrialized ancillary equipment including adaptors, injectors, gateways, and multiplexing devices, specifically designed to work wherever Redline wireless systems are installed.

**Industrial PoE Injector**: This industrial grade PoE power injector is specifically designed to support deployment of Redline’s powerful machine-to-machine (M2M) wireless systems in the harsh industrial environment of off-grid, underserviced and isolated locations reliant primarily on reliable DC power.

**Redline Management Software**
ClearView NMS: is a sophisticated and easy-to-use centralized network management solution that provides configuration, monitoring and control of single or multiple Redline networks. This includes AN-80i, RDL-3000 and RDL-2000 broadband wireless platforms, as well as multi-vendor network devices.

**MEXICO**

**Sales/Local Presence:** Direct Sales from Canada

**Years in Mexico:**

**Application:** Mine operation

**CONTACT INFORMATION**

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Paul Moubarak, CALA Sales Manager
905 479 8344
info@rdlcom.com
SkyWave Mobile Communications Inc.
www.skywave.com

SkyWave Mobile Communications is a global provider of satellite and satellite-cellular terminals, applications, network and professional services for mobile and fixed remote industrial tracking, monitoring, control, and management. Established in 1997, SkyWave is based in Ottawa, Canada. SkyWave has designed, manufactured and shipped more than 700,000 satellite/cellular terminals to customers in over 100 countries. Today, it manages more than 80 million satellite-based data messages every month.

Our users depend on us to increase productivity and safety of their mobile and fixed remote resources and as an Inmarsat service provider, we are able to offer the reliability they need through our global communication portfolio.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Integrated Satellite/Cellular Airtime
Device-level M2M Applications/Systems and Solutions

SkyWave provides the hardware, network and applications that work together to deliver a cost-effective, integrated approach for tracking, monitoring, control, and management of vehicles, vessels and equipment anywhere in the world. With extensive industry experience, SkyWave understands the unique challenges involved in tracking remote assets, and uses this knowledge to enable high value solutions for the machine-to-machine (M2M) market.

Our integrated product and service offerings are used by organizations in the transportation, maritime, energy, and resource industries. We provide these comprehensive solutions through a global network of system integrators, original equipment manufacturers (OEMs), and data communications solution providers in over 100 countries. These partners deliver high-quality, reliable systems and solutions customized to fit each customer’s unique mobile and fixed remote resource management requirements.

Since its inception, SkyWave has been setting the standard for meeting the increasing demand for richer information in M2M applications. Most recently, SkyWave launched its IsatData Pro service with a packet data capability far beyond anything currently on the market, allowing businesses to share more data across diverse operations, via emails, electronic forms and workflow information. The global service allows users to send over 37 times more data, meeting the higher data payload capacities required in mobile business applications and M2M telemetry, while significantly increasing productivity and lowering costs.

MEXICO
Sales/Local Presence: Local Office Monterrey
Years in Mexico: Since 1997
Application: Mine operation

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Gabriela Martinez, Senior Account Manager Latin America
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Wenco International Mining Systems Ltd.

Wenco provides a comprehensive fleet management system for surface mining operations of all sizes worldwide. Wenco delivers world class software and hardware to accurately record equipment activity, location, time, production and maintenance information. Wenco products are supported by an in-house staff of engineers, mining industry experts, software developers and training specialists.

Wenco is dedicated to ensuring your mine is as safe, efficient and profitable as possible. With regional staff located in the United States, Chile, South Africa, Guinea, Burkina Faso, Ireland, Russia, India and Australia, Wenco has the ability to build strong client relationships and provide the highest levels of customer service.

Markets served: worldwide.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Software

Wenco offers a suite of specialized software running on ruggedized hardware using GPS and a wireless radio network to track and monitor production, maintenance, and safety in the mine.

Completely scalable to a mine’s needs, Wencore contains the essential hardware, communications, and software applications for operations, engineering, maintenance, and management.

Wenco provides complete monitoring and reporting so you can take control and improve operating efficiencies.

Dispatchers can quickly and intuitively view the mine in multiple formats to direct drivers and maintain consistent ore quality. Equipment information is provided to the dispatcher in a user-friendly Windows environment with drag-and-drop functionality.

Operators receive information directly on the mobile operator terminal (MobileOT) to verify status, see load/dump details, and maintain a continuous link with their dispatcher. The MobileOT can be configured to include startup checklists, fueling data, speed limits, and more.

Wenco’s SQL server database provides easy solutions for storing, sharing, and analyzing data. Wenco’s web-based reporting tool, Dashboard, allows you to view real-time information on multiple devices from anywhere in the mine.

Functionalities: production management, operator efficiency, real time machine health, actionable data, safety.

Hitachi Construction Machinery

Wenco is a subsidiary of Hitachi Construction Machinery Co., Ltd. (HCM). Hitachi mining excavators and haul trucks are one of the strongest brand names in the mining industry. The current range of Hitachi hydraulic mining shovels/backhoes and Hitachi mining rigid frame dump trucks are backed by Hitachi’s most dynamic and responsive service and support network worldwide.

MEXICO

Sales/Local Presence:

Sales office for Latin America in Santiago de Chile

Years in the Region:

Since 1994

Application:

Fleet management systems - mine operation

CONTACT INFORMATION

MEXICO

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56 9 9828 1528 (Chile)
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CANADA

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Glen Trainor, VP Marketing
604 270 8277
Breaker Technology International

www.rockbreaker.com

BTI manufactures and distributes a wide range of mining, quarry, construction and demolition equipment. They are specialized in hydraulic hammers, mobile rock breakers, stationary and portable rockbreaker systems, and a wide range of heavy duty service vehicles for mining.

Applications are focused on mining: stationary rock breakers, and mobile rock breakers, scalers, explosives loaders & carriers, cranes, shotcreters, personnel carriers, and the new MineRunner.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

<table>
<thead>
<tr>
<th>Rockbreaker Systems</th>
<th>BTI offers a wide range of rockbreaker systems suitable for raking and breaking of rocks in both stationary and portable crushers. To aid in good planning and cost control, BTI technicians can advise about service personnel, hoist crane requirements and installation considerations from electrical to hydraulic systems. BTI has been in the business of servicing the harsh and demanding mining and quarrying industries since 1958.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Equipment</td>
<td>A full line of underground utility vehicles and production equipment to meet specific mining needs like blast hole charging, mobile rockbreakers, scalers and utility vehicles.</td>
</tr>
<tr>
<td>Hydraulic Breakers</td>
<td>Hydraulic breakers that work across a wide range of applications including trenching, construction, demolition, quarry, mining and recycling. BX Series: its design produces stable high-speed percussion, and exceptional value and durability for all construction, demolition, and rockbreaking requirements. BXR Series breakers offer outstanding power to weight ratio, and exceptional efficiency with the oil regeneration system. Overall system designed for harsh, continuous duty for use in demanding rock breaking applications. BTI produces the most powerful rockbreaker in the world at 18,500 ft. lbs. per blow.</td>
</tr>
<tr>
<td>Attachments</td>
<td>An extensive range of specialty attachments for the construction, demolition and recycling industries, such as hydraulic compactors, hydraulic multi-systems, rotating and hydraulic pulverizers and hydraulic shears.</td>
</tr>
</tbody>
</table>

MEXICO

Sales/Local Presence: 2 Distributors: PROSSESA with coverage in Guanajuato, Colima, Jalisco, Zacatecas, Durango, Coahuila and others COMINSA with coverage in Coahuila, San Luis Potosí, Chihuahua, Sonora, Guerrero, Jalisco and others

Years in Mexico: Since 1989

Application: Underground & Surface Mine Operation

CONTACT INFORMATION

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MEXICO

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Proveedora de Suplementos y Servicios (PROSSESA)
Isidro de los Santos
isantosiv@processa.com.mx
878 782 6110
Carretera 57 Km. 14 S-N
26170 Nava, Coahuila, Mexico
Energold Drilling Corp. is a drilling company that services the mining and energy sectors in the Americas, Africa and Asia. Internationally recognized for its social and environmental approach to drilling, the company operates over 230 rigs in 22 countries worldwide, and provides a range of drilling services from early stage exploration to mine site operations. The portable drills are able to operate in areas without road access and terrains where conventional drills are unlikely to set up.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

| Energy Drilling | Bertram Drilling Corp. ("Bertram"), a wholly owned subsidiary of the Energold Drilling Group, is a leading oil and gas drilling services company providing oil sands coring, shot hole seismic and geotechnical & geothermal drilling services. Bertram also provides diamond and pipeline drilling services. |
| Mineral Drilling | Drilling services. Modern and well-maintained fleet of more than 120 drilling rigs consist primarily of highly portable diamond drilling rigs, a deep hole rig, highly mobile underground drilling rigs, reverse-circulation rigs (RC) and reverse-air-blast rigs (RAB). For surface, underground and conventional drilling. |
| Manufacturing / Water | Dando Drilling International Ltd. ("Dando"), headquartered in the United Kingdom, is a wholly owned subsidiary of the Energold Drilling Group. The Dando team has a long and proven track record of designing and manufacturing specialty/customized drilling rigs and associated equipment for water well, mineral exploration and geotechnical drilling applications worldwide. Dando has also supplied water well drilling services to many international institutions. Services include: Manufacturing customized mineral exploration multipurpose rigs for reverse-air-blast (RAB) drilling, wireline coring, conventional coring and reverse-circulation (RC) drilling; manufacturing of geothermal, geotechnical and water well rig applications; tools and consumables; borehole logging equipment; and mud conditioning equipment water rigs, mineral rigs, multipurpose rigs, parts & tooling; mine pit de-watering; mine water supply; mine hydrogeological characterization and well monitoring; rural and urban water well drilling schemes in the developing world. |

**MEXICO**

| Sales/Local Presence: | 2 Subsidiary Offices  
Mexico City and Chihuahua |
| Years in Mexico: | Since 2005 |
| Application: | Exploration |

**CONTACT INFORMATION**

**MEXICO**

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**CANADA**

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mgarrido@energold.com

18
Fordia offers its clients global drilling solutions with its line of diamond tools, equipment and accessories designed for mineral exploration and geotechnical industries.

The company offers high quality products that meet the specific needs of drilling companies while providing customer service and technical support. It has approximately 310 employees in Canada and around the world. The company has offices in all continents, as well as distributors in more than 25 countries.

### PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

#### Diamond Tools
Fordia has specialized in developing and manufacturing high quality diamond tools for the mineral exploration industry with products like core bits, reaming shells and reaming shells 10 & 18 in.

#### Drill Rigs
A complete range of powerful and reliable diamond drilling rigs to meet your needs including surface or underground drills. Golden Bear and Geotechnical Drill Rigs.

#### Data Equipment
Fordia manufactures and distributes a wide range of tools that make it possible to collect geological data during drilling, such as the orientation of core samples.

#### In the Hole Coring Systems
Fordia manufactures the whole range of in the hole products. It offers patented system core barrel OWL Self Lock, wire line system in all diameters and format.

#### Pumps
Fordia distributes KF series, hydraulic, 10 HP diesel, 30 HP diesel ideal for heavy duty requirements.

#### Accessories
Core boxes, hoses, diamond saw blades, spill kits and absorbents, wrenches, recovery tools.

#### Drilling Additives and Lubricants
A variety of lubricants for keeping the drilling going smoothly.

#### Geotechnical Equipment and Sampling Products
Fordia specializes in supplying quality equipment to the geotechnical industry - with the same central focus on providing complete solutions to its customers.

#### Husky Drill Rods and Casing
Husky drill rods and casing are quality-crafted in DCDMA standard sizes using superior alloy steel, with each end of the rods heat-treated for greater wear resistance. Husky drill rods and casing also provide a tight mechanical seal.

### MEXICO

**Sales/Local Presence:** Direct Sales from Canada

**Years in Mexico:** Since 1994

**Application:** Drilling

### CONTACT INFORMATION

**CANADA**

3, Hôtel-de-Ville Dollard-des-Ormeaux, Québec, H9B 3G4, Canada

Hélène Coulombe, Sales Director
514 336 9211 hcoulombe@fordia.com
# Forage G4 Drilling

**www.g4drilling.com**

G4 Drilling specializes in drilling in rugged terrain or in extreme conditions. Regardless of the circumstances, G4 Drilling provides high-quality, effective, and professional drilling solutions. G4 Drilling began its operations in Mexico with the Pinos Altos project of Agnico Eagle. Since its inception, the size of the company has more than quintupled, growing from six to 32 rigs in just five years. In 2014, G4 Drilling owned 40 rigs.

G4 Drilling provides superior quality services that fully comply with all safety and environmental standards. Because our company regularly works in remote locations, safety is the number one priority on all G4 Drilling worksites.

## PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

| Drilling Services | G4 Drilling specializes in diamond drilling in rugged terrain and under difficult conditions, both at the surface and underground. We operate successfully where others have failed, such as: very rugged terrain, very high altitude sites, remote sites with no access, sites where extreme temperatures prevail, mountainsides, ground that is difficult to drill and subsurface soils with water issues. Surface drilling: exploratory drilling coring from 600 to 800 metres, and fill-in drilling coring up to a depth of 2,500 metres. All terrain drilling: crawler tractor coring up to a depth of 2,500 metres, and heli-portable drill ideal for rugged (up to an altitude of 3,000 metres in mountains) or hard-to-reach terrain coring up to a depth of 2,500 metres. Reverse circulating drilling: crawler tractor drilling up to a depth of 300 metres in terrain where the rock is weaker. G4 Drilling can transport the equipment by any means necessary to the worksite, always finding the solutions to go where needed, no matter how remote or rugged the terrain. G4 Drilling boasts a range of drills and drilling equipment that is among the most modern in the industry. It actively participates in assembling its drill rigs. The company ensures greater consistency and quality of the components of its equipment. This uniformity allows us to supply each of our sites with spare parts to minimize damage and downtime. Drills for surface work: eleven drills on skids for holes up to 2500 meters N; three reverse circulation (RC) drill, 200 or 400 meters depth capacity; three mobile surface drills, 500 or 1500 meters N depth capacity; eleven portable surface drills, 300 meters N depth capacity; seven heli-portable drills, 300 or 600 meters N depth capacity; and one HTM drill to drill wells or industrial 6 to 12 inches. Electric drills for underground work: four electric drills for holes of 1500 or 2000 meters N. |
| Drilling Equipment | |

## MEXICO

### Sales/Local Presence:

**Sales Office (Subsidiary)**  
Hermosillo, Sonora

### Years in Mexico:

Since 2006

### Application:

Mine exploration

## CONTACT INFORMATION

### MEXICO

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### CANADA

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Daniel Camacho, CEO  
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Major Drilling Group International Inc. is one of the world’s largest drilling service companies primarily serving the mining industry.

To support its customers’ varied exploration drilling requirements, Major Drilling maintains field operations and offices in Canada, the U.S., South and Central America, Asia and Africa. Major Drilling provides all types of drilling services including surface and underground coring, directional, reverse circulation, sonic, geotechnical, environmental, water-well, coal-bed methane and shallow gas.

Its main competitive advantages are: specialized equipment, long-standing relationships with the world’s largest mining companies, and access to capital and skilled personnel.

## PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT OFFERED AROUND THE WORLD

<table>
<thead>
<tr>
<th>Service Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Wireline Core Drilling</td>
<td>A drilling method that uses diamond impregnated drill bits to cut a cylindrical core sample to depths that can reach several thousand meters.</td>
</tr>
<tr>
<td>Underground Wireline Core Drilling</td>
<td>Performed underground and holes can reach greater than 1000 meters in depth.</td>
</tr>
<tr>
<td>Multi-Purpose Drilling</td>
<td>A combination drilling process that employs both reverse circulation and diamond core drilling techniques. Typically reverse circulation drilling is performed from the collar of the hole to a pre-determined depth, usually through overburden and into the host rock beneath. Core drilling is then conducted to retrieve core samples at depth.</td>
</tr>
<tr>
<td>Reverse Circulation Drilling</td>
<td>Technique that uses double-walled drilling pipe, often with compressed air as the circulating medium. The rock chips and air/fluid return to the collar of the hole through the inside of the drill pipe, rather than outside the pipe as in most drilling.</td>
</tr>
<tr>
<td>Directional Drilling</td>
<td>All activities required to purposely curve a drill hole, with the objective of drilling into a precise set of coordinates, or alternately, to avoid drilling into a defined location.</td>
</tr>
<tr>
<td>Water-Well Drilling</td>
<td>Drilling a hole in the ground, and lining the hole with pipe and screens, for the extraction of groundwater.</td>
</tr>
<tr>
<td>Grade Control Drilling</td>
<td>Done in coordination with ongoing surface and underground mining activities, for three reasons: to verify the ore being mined contains the expected minerals, to aid operations planning and improve efficiency.</td>
</tr>
<tr>
<td>Environmental Drilling</td>
<td>When soil or groundwater samples are required in order to assess an area for contamination, or when groundwater monitoring or remediation wells are required for the treatment of groundwater. Includes a number of drilling and probing techniques, including sonic drilling, hollow-stem auger drilling, and direct-push or probe sampling.</td>
</tr>
<tr>
<td>Geotechnical Drilling</td>
<td>Includes a range of drilling and sampling techniques that are used by civil engineers and geologists to determine soil and rock characteristics for construction and soil stabilization purposes. Main drilling methods used in geotechnical drilling include: mud rotary, hollow-stem auger, diamond coring and roto-sonic.</td>
</tr>
<tr>
<td>Coal-Bed Methane - CBM Drilling</td>
<td>Coal-bed methane (CBM) drilling is performed with rotary and core drilling equipment. Rotary rigs are used to drill and set casing for production wells, and, along with core drills, are used to drill long directionally-drilled holes into coal seams from which coal-bed methane gas is extracted. Due to the occurrence of gas, blow-out preventers are often needed.</td>
</tr>
<tr>
<td>Shallow Oil and Gas Drilling:</td>
<td>Shallow oil and gas deposits can be drilled with smaller drilling rigs and support equipment than the one traditionally used in the energy industry. Although smaller, these rigs utilize standard blow-out prevention equipment and mud cleaning systems, and casing designs can be identical to those used by larger rigs. These rigs have the advantage of occupying a relatively small footprint, with corresponding reduced environmental impact.</td>
</tr>
</tbody>
</table>

### MEXICO

**Sales/Local Presence:** Sales Office (Subsidiary)  
Hermosillo  
**Years in Mexico:** Since 1995  
**Application:** Exploration

### CONTACT INFORMATION

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**CANADA**  
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Multi-Power Products Ltd.
www.multipowerproducts.com

Multi-Power is a 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.

For over 28 years Multi-Power has been providing hydraulic/pneumatic service and repairs to our customers in the agriculture, construction, forestry and mining industries. Combined with our hydraulics, machining, fabrication and engineering departments Multi-Power is able to provide both off the shelf and custom solutions to meet all of your project requirements.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diamond Core Drills</td>
<td>Helicopter portable, track mounted, man portable, skid mounted, underground, deep hole, and low environmental impact rigs for the mineral exploration and geotechnical industries.</td>
</tr>
<tr>
<td>Air Rotary Drills models</td>
<td>Reverse circulation, RAB, air core, track mounted, helicopter portable, and truck mounted rigs for the mineral exploration, construction and geotechnical industries.</td>
</tr>
<tr>
<td>Seismic Drills</td>
<td>Mud and air rotary, rubber track mounted, ROPS certified, and low environmental impact rigs for the oil and gas exploration industry.</td>
</tr>
<tr>
<td>Specialty &amp; Multi-Purpose Drills</td>
<td>Auger, SPT hammer, large diameter, and custom products for the mineral exploration, geotechnical and construction industries.</td>
</tr>
<tr>
<td>Services</td>
<td>Components and parts, machine and fabrication, service and repairs, design.</td>
</tr>
</tbody>
</table>

**MEXICO**

Sales/Local Presence: Direct Sales from Canada covering Hermosillo, Durango and Guanajuato

Years in Mexico: Since 2010

Application: Drilling operations

**CONTACT INFORMATION**

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Tom Ulm, President
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Ausenco Engineering Canada Inc.

Ausenco is a provider of engineering and project management services to the global resource and energy sectors. Ausenco's business structure focuses on five key areas – Oil & Gas, Power, Environment & Sustainability, Minerals & Metals, Process Infrastructure, and Program Management. These different sectors of our business work together seamlessly, creating a complete service offer for our clients.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

- **Environment and Sustainability**
  - Engineering solutions for sustainable development. Our professional strengths in the geotechnical, civil, hydrology, hydrogeology and environment engineering disciplines offer our clients engineering that is consistent with their sustainability strategies.

- **Minerals Processing**
  - Specialized in the engineering, procurement, construction management, program management, commissioning and operations of minerals processing projects. Our projects range from small conceptual studies for new developments to the construction of large scale minerals processing facilities.

- **Oil and Gas**
  - Engineer, design and construction of in-situ facilities, including steam-assisted gravity drainage (SAGD) well pads and pipelines, helping operators produce oil sands bitumen efficiently and safely. We deliver solutions tailored to the oil and gas market.

- **Power**
  - Customised solutions from conventional to renewable energy, right through to energy transport solutions via pipeline or wire. We offer new and improved ways of delivering power in a cost efficient and sustainable way.

- **Transportation Systems**
  - Vast experience in the planning and design of heavy haul rail and transportation systems for bulk materials. Our capabilities include >5,000 transport projects and we continue to deliver sophisticated engineering and infrastructure solutions for our clients globally. We also possess expertise in simulation of transportation systems to ensure our clients can have confidence in future investments.

- **Ports and Terminals**
  - We have successfully designed ports for corporate and government clients ranging from small vessel harbours to bulk terminals. Our engineers have experience with marine structures, including but not limited to: wharfs, jetties, spread mooring systems, trestles, fendering designs, seawater intake and outfall facilities, breakwaters, jacket and caisson structures.

- **Pipeline Systems**
  - Engineering of pipelines for the transport of a diverse array of products through challenging terrain, extreme climates and remote locations. We provide expertise with associated SCADA systems and telecommunications, especially for remote locations developing stand-alone, self-sustaining systems which require a minimum of local human interface and maintenance. Long-distance pipelines to transport virtually every type of mineral.

- **Operation and Maintenance**
  - Comprehensive range of operations and maintenance services for our clients who seek seamless, low risk transitions to stable operations in order to secure and maintain a high return on investment.

- **Infrastructure Services**
  - Our global experience in end to end solutions ranges from roads and bridges to water and wastewater treatment, through to light rail systems.

- **Commodities**
  - Extensive knowledge and experience in the design of systems that treat and handle commodities, including both precious and base metals, and ferrous metals.

MEXICO

Sales/Local Presence: Sales Office Hermosillo

Years in Mexico: Since 2013

Application: Management services

CONTACT INFORMATION

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CANADA

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V6B 2W2, Canada

604 684 9311
CAE Mining develops and provides innovative technology and services to plan, manage and optimize mining operations. With operations in eleven countries, CAE Mining offers solutions ranging from exploration data management and ore-body modelling, to mine planning and operations management. With a technical consulting team of over 100 experienced geologists and mining engineers servicing customers in close to 100 countries. Through simulators, software, courseware and training services, CAE Mining is developing the industry’s most compelling technology and services to advance the efficiency and safety of mine operations.

### Products / Services / Technologies / Equipment

**Consulting**  Executive advisory, technical consulting, software training, operator training, train-the-trainer.

**Software**  CAE Mining provides a compelling one-stop-shop for the technology and services required to seamlessly plan and manage modern mining operations. With operations in twelve countries, CAE Mining offers solutions ranging from exploration data management and ore-body modelling, to mine planning and operations management. Software: Geological Data Management Solution, Resource Modelling, Underground Planning Solution, Open Pit Planning Solution and CAE Siroversion.

**Simulation**  CAE Terra simulators provide the highest fidelity experience available to the mining industry, for the full variety of mining equipment types, for both open pit and underground operations. They are used to enhance safety and productivity outcomes, with technology that has been certified to the global Type 7 standard. This relates to the sophistication and quality of the simulation made possible by the underlying integration of movement, graphics and realistic machine response to millisecond accuracy. For the operator, the most obvious difference is vastly reduced incidence of motion sickness in the simulator, making it a much more productive training tool. The simulators are built using the highest quality components such as high-definition projectors and six degrees-of-freedom motion system for a highly realistic training experience.

### Mexico

**Sales/Local Presence:**

**Sales Office**
Zacatecas and Coahuila

**Years in Mexico:**
Since 2004

**Application:**
Mine planning and operation management

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Global Partner Solutions
Mining & Industries Inc.

Managing the supply chain for any project size; mining, oil & gas, industrial and infrastructural projects.

Development of solutions customized to the client’s environment.

Project staffing, procurement, engineering, logistics, material management.

Specialized in: Project procurement, supplier qualification, logistics, and supply chain improvement via operational cost reduction initiatives, Inventory management, program management, supplier/vendor assessments, contract formation, and relationship management.

Improving visibility and predictability in your project & driving value through project lifecycle.

GPsi provides a great alternative to the traditional EPCM. GPsi has the experience, the team to manage your project procurement process (procurement, contract formation, expediting, logistics, materials management, and contract administration). GPsi, has the team to work with or for the OWNER. GPsi will provide necessary Project Procurement Management, visibility and predictability on possible impact to your project schedule. Just select your engineering firm and your construction management team and let GPsi do the work for you. We will pull on engineering deliverables as well as the equipment suppliers for timely delivery to meet construction schedule.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Integrated Supply Chain Solutions
Managing the supply chain for any project size; mining, oil & gas, industrial and infrastructural projects.

Development of solutions customized to the client’s environment.

Project staffing, procurement, engineering, logistics, material management.

Specialized in: Project procurement, supplier qualification, logistics, and supply chain improvement via operational cost reduction initiatives, Inventory management, program management, supplier/vendor assessments, contract formation, and relationship management.

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MEXICO

Sales/Local Presence: Subsidiary Office in Queretaro
Years in Mexico: Since 2009
Application: Project procurement management and staffing solutions services

CONTACT INFORMATION

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Robert Allard, President
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Sylvain Allard, Business Development Manager
514 604 5559 vchristlieb@gpsi-intl.com
Mining Service Offerings

Our team of mining consultants specializes in mineral exploration, production, and evaluation and is skilled in a range of services, including mineral exploration evaluation, mineral resources and reserves estimation, project financing, due diligence, feasibility studies, appraisals, qualified person reports, and more. We have a proven track record of supporting successful international mining projects.

Mining engineering, pre-feasibility and feasibility, international tender support, exploration geology, technical due diligence audit, economic and financial analysis, mineral appraisal, litigation support services, environmental and permitting, resource and reserve evaluation, mineral project development support.

Oil and Gas Service Offerings

Oil and gas appraisal, reservoir engineering, petroleum geology, oil and gas economics, expert witness, acquisition and divestiture support, third party reporting, oil and gas exploration, field development, institutional strengthening, underground gas storage, transaction support, decision analysis support.

MEXICO

Sales/Local Presence: Subsidiary office in Hermosillo
Nationwide, mainly Northwestern and Bajio areas

Years in Mexico: Since 2009

Application: Mineral and hydrocarbon exploration and production companies, projects in exploration, development, or operation. Securities filings.

CONTACT INFORMATION

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720 407 4062
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Gustavson Associates is an international oil, gas and mining consultancy firm with more than 30 years of extensive international experience. Our team consist of geologists, engineers, economists and appraisers who serve organizations and individuals around the world – including mining companies, oil and gas companies, governments, international banks and financial institutions, project financiers, stock exchanges, international law firms and individual property owners.

Gustavson provides independent engineering and geological experts who can assess the risk, return and opportunity of a mine or hydrocarbon asset. Your reputation, financial well-being and economic stability depends on reliable advice.
Norwest is an internationally recognized leader in providing consulting expertise to the energy, mining, and natural resources industries.

Norwest’s combination of experience, technology and best practices provides the foundation for advancing our customer’s project from initial evaluation through final development. Its innovative, experienced-based approach is focused on assisting our clients in achieving world-class performance standards.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Management Consulting**
Norwest’s management consulting services are based in operations, planning, marketing, executive management, and government relations. Services include project development, mergers, acquisitions and financing, risk assessment, loss control, and safety management, legal support services and business consulting.

**Geology Services**
Geological services include exploration and assessment of energy and mineral commodities. Geologists employ leading-edge technology such as three-dimensional geological modeling, mine planning, and reservoir engineering software to manage and analyze the collected data for maximum utilization and value. They are also experts at planning, managing, and executing the required drilling and site data collection programs. Geological services include resource evaluations and delineations, regional resource potential evaluations, reports prepared in accordance with the requirements of National Instrument 43-101/51-101, core logging, data management and QA/QC with CoreRelate™, geostatistics, geological and geophysical interpretation of data.

**Engineering Services**
Norwest’s expert teams are well versed in all phases of project development, from initial project planning through delivery of the product to the customer. Resource development: project evaluation, feasibility studies, engineering design, resource assessment, and development planning. Resource utilization and economics: fuel supply assessments, market and transportation studies, procurement assistance, and investment evaluation, from specific equipment to overall mechanical requirements, personnel to systems management, Norwest integrates sound engineering fundamentals into every aspect of the project. Experience in: geotechnical engineering, processing and materials handling, and surface and underground mine engineering.

**Environmental**
Norwest experts provide environmental assessment, permitting, water resources assessment and management, carbon emissions evaluation and regulatory support services to assist clients with a wide variety of environmental and regulatory compliance issues. Services include community outreach, water resources, environmental assessment, permitting, regulatory support, and remediation, environmental planning and management and climate change issues.

**Field Services**
Norwest offers our clients a diverse range of field services solutions for all phases of a project including environmental monitoring, exploration planning, drilling and field management, operational monitoring and data management, site specific engineering and construction management and water resources management.

**Water Resources**
Norwest uses analytical and numerical modeling to evaluate surface and groundwater flow and quality, used to analyze existing hydrogeologic conditions, and predict impacts of engineered interventions such as dewatering yield and drawdown. Modeling can be used for urban and rural stormwater runoff and water quality sampling.

**MEXICO**

**Sales/Local Presence:** Direct Sales from Canada
Coahuila, Baja California, Pachuca and Nuevo Leon

**Years in Mexico:** Since 1990’s

**Application:** Consulting Services

**CONTACT INFORMATION**

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kwilson@norwestcorp.com
SRK Consulting is an independent, international consulting practice that provides focused advice and solutions to clients, mainly in the earth and water resource industries. For mining projects, SRK offers services from exploration to mine closure, including feasibility studies, due diligence reviews, and production optimisation.

Established in 1974, SRK now employs more than 1,500 professionals internationally in over 50 offices on 6 continents.

### PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Services Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining Project Evaluation</td>
<td>Mining feasibility studies, mining independent project review, mining risk management, mining data management.</td>
</tr>
<tr>
<td>Geology, Resources And Exploration Services</td>
<td>3D geological modelling, remote sensing and geophysics, resource modelling and estimation, mineral exploration project management, mineral exploration project initiation, geological mapping and analysis of drill hole data, mineral exploration targeting, basin studies, exploration sampling and analysis, mineral exploration QA-QC, structural geology.</td>
</tr>
<tr>
<td>Mining Services</td>
<td>Open pit mine design, planning and engineering, underground mine design, planning and engineering, mining economics and finance, mining geology, grade control and reconciliation</td>
</tr>
<tr>
<td>Geotechnical Services</td>
<td>Geotechnics for mine infrastructure, mining geotechnical investigations, underground rock mechanics, pit slope stability.</td>
</tr>
<tr>
<td>Extractive Metallurgy And Mineral Processing</td>
<td>Plant optimization, geometallurgical modelling, laboratory and pilot plant test work, flow sheet design.</td>
</tr>
<tr>
<td>Tailings, Heap Leach and Mine Waste</td>
<td>Heap leach engineering, tailings and mine waste engineering, landfills and solid waste.</td>
</tr>
<tr>
<td>Mining Related Environmental Services</td>
<td>Mine closure and reclamation, environmental geochemistry and acid rock drainage, contaminated sites, environmental and social services.</td>
</tr>
<tr>
<td>Water Services</td>
<td>Groundwater management and hydrogeology, mine water management, surface water engineering, water quality management.</td>
</tr>
</tbody>
</table>

### MEXICO

**Sales/Local Presence:** Subsidiary offices in Queretaro and Hermosillo

**Years in Mexico:** Since 2011

**Application:** Mine design, scheduling and optimization, and operational mine assistance

### CONTACT INFORMATION

**MEXICO**

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**Suite 1300, 151,**
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ADI Systems Inc. specializes in the design and construction of industrial wastewater treatment systems worldwide. With 200+ operating installations and decades of application experience, ADI Systems can provide a solution that is tailor-made for each customer.

ADI Systems offers a wide range of technologies to customers from laboratory studies to full-scale anaerobic digestion and other treatment systems. Industries: Food and Beverage, Biofuels, Breweries and Distilleries, Chemical and Pharmaceutical, and Pulp and Paper. Technologies: Anaerobic treatment, aerobic treatment, biogas treatment and utilization.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

R&D, Laboratory, and Pilot Services
ADI Systems’ R&D center and laboratory facilities are equipped with state-of-the-art respirometry equipment and testing capabilities. In-house wastewater treatment specialists and laboratory technologists conduct a wide range of wastewater testing. The laboratory services include respirometry testing, which provides information regarding the degradability of a wastewater sample when treated by anaerobic and aerobic processes. This testing also provides information relating to the expected COD removal performance, bios yield, and biogas production potential. On-site pilot studies provide information relating to wastewater treatment performance and removal efficiencies and confirms the design basis for a full-scale installation of a wastewater that has been pilot tested on-site.

Design/Build
ADI Systems offers design/build or technology-only packages. Design/build projects offer a number of benefits to our clients including a “one-stop shop” for a complete treatment solution, a single point of contact and responsibility, and consistency in design and construction quality throughout the project.

Process Support
ADI Systems supports its customers by providing process technical assistance as part of an Aftercare Service Agreement, which is offered with all of their systems. Their wastewater treatment specialists are available for process and technical support 24/7.

MEXICO

Sales/Local Presence: Direct Sales from Canada

Years in Mexico: Since 1994

Application: Environmental services

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Cypher provides certified and proven environmental mining solutions that solve dust and haul-road construction problems. Cypher Environmental provides environmentally-friendly dust control, soil stabilization, and water treatment technologies worldwide. They focus on improving their products that meet the industry’s growing requirement for sustainability and increasing cost effective results. All the solutions the company provides are environmentally friendly alternatives that in most cases are a fraction of the cost of traditional methods / applications.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Dust Stop**
Dust Stop® is a 100% environmentally-friendly dust control product. As a non-toxic road dust control product and overall dust suppressant for a variety of dust control applications such as tailings, Dust Stop® effectively eliminates unwanted fugitive dust from unpaved roads of any soil type. It can be used for road dust control and is also extremely effective for stockpile dust control, tailings pile dust suppression, and a variety of erosion control applications.

**EarthZyme**
EarthZyme is a long term soil stabilization solution that is 100% environmentally-friendly and non-toxic to roadside vegetation. When used on unpaved roads, EarthZyme's unique formula results in an increased and lasting compaction of clay-based soils that can substantially decrease road maintenance costs. EarthZyme achieves these results through providing an increase in density, which results in higher CBR values (soil strength), reduced permeability and swell and ultimately leading to a road that performs better in wet weather.

**UltraZyme Powder**
UltraZyme Powder (UZP) is a generic powder product specifically designed to reduce organic contaminants in a variety of wastewater treatment/effluent treatment applications. It is effective in industrial and domestic wastewater treatment and sewage treatment plants as well as food processing plants, agricultural facilities, meat processing facilities and numerous other water treatment and odour control.

**Earth Seal**
EarthSeal nanotechnology product is a water soluble, UV and heat stable, reactive soil modifier with the ability to help retain strength of road bases and resistance to deformation in wet and dry weather.

**MEXICO**

Sales/Local Presence: **Exclusive Representative in Jalisco National Coverage**

Years in Mexico: **Since 2012**

Application: **Mine construction, mine operation**

**CONTACT INFORMATION**

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Todd Burns, President
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In business since 1987, Northland Power develops, builds, owns and operates power generation projects using clean-burning natural gas and renewable technologies. Our facilities, located in Canada, the United States and Germany, generate over 1,300MW of electricity. Northland develops high-quality power projects supported by long-term power purchase agreements. Northland is actively pursuing projects for utility and self-supply customers. In addition, we are actively seeking joint-venture partners for new projects.

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**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

### Technologies

Northland has expertise in a number of technologies, including natural-gas-fired (simple-cycle, combined-cycle and cogeneration), wind and solar power. Our long-term experience and proven track record enables us to successfully develop projects across a broad spectrum of clean and renewable technologies and fuel sources in a variety of jurisdictions.

We are actively pursuing technologies in the following categories:

**Thermal (Natural Gas):** thermal power generation plants provide reliable, cost-effective power on demand. The vast majority of Northland’s thermal projects use clean-burning natural gas as the fuel source.

**Wind:** around the world, wind energy is one of the most rapidly growing power sources. Utility-scale wind farms using large wind turbines where the power of the wind is harnessed and connected to the power grid.

**Solar:** one of the greatest benefits of solar power is its availability during the daytime hours when demand for power is often at its peak; for that reason, many jurisdictions are increasingly using it to supplement their grids. Northland’s solar portfolio includes development and construction of thirteen ground-mounted solar projects totaling 130 MW.

---

**MEXICO**

**Sales/Local Presence:** Direct Sales from Canada

**Years in Mexico:** Since 2013

**Application:** Power generation projects

---

**CONTACT INFORMATION**

**CANADA**

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Eagle Mapping specializes in processing and mapping software operated by professionals, including analog hard copy and other data formats. Precision aerial mapping allows for quick and complete acquisition of an entire property while eliminating on-the-ground logistics and dangers. Eagle Mapping operates its own sensors and aircraft, and all data is processed in-house. Accurate aerial topographical and orthophoto maps are a basic necessity for exploration geologists and mining and environmental engineers in order to find an ore deposit and develop a mine. Mining applications: geology, mine development and reclamation. Other industries served: engineering, energy, forestry and first nations.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Airborne LiDAR
LiDAR flyovers of mines are used to produce up to date digital topographical and orthophoto maps that show the volume of material removed from the pits and the development changes of the mine. Scan with a laser rangefinder resulting in datasets of millions of random individual points on above-ground features.

Ortho Photography
For a better understanding of a determined geographic area. DiMAC 60 megapixel digital camera can be flown simultaneously with LiDAR, Pixel resolutions from 5 to 50cm. The camera offers patented True Forward Motion Compensation and True Colour processing for increased image sharpness and true-to-life colouring. Ortho-rectification methods provide true ground scale for accurate measurement.

Satellite Imaging
Satellite sensors may be used to create maps and visual tools for your project. Panchromatic, multi/hyperspectral, and colour imagery available, with pixel resolutions of 0.5 to 5.0m, useful for large scale projects.

GPS Surveys
Features: operating dual-frequency Trimble GPS receivers, instantaneous positioning with sub-cm accuracy, control point monumentation, base station occupation for LiDar/aerial photo control and remote accessibility.

Photogrammetry

MEXICO

Sales/Local Presence: Direct Sales from Canada

Years in Mexico: Since 1995

Application: Exploration

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GEM Advanced Magnetometers is a supplier of magnetometers, gradiometers, and magnetic sensors for earth science, geophysics, and other applications. With more than three decades in the research and development of equipment for geophysical exploration, GEM is also known for its service and support – featuring knowledgeable magnetics professionals and the industry-leading two-year warranty program.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Potassium Magnetometers: GEM’s GSMP-35 (Potassium) system offers the highest sensitivity available. This high-range instrument is for subsurface investigations in numerous fields, including mineral prospecting and exploration, oil and gas exploration, UXO detection and discrimination, environmental and engineering, and other applications.

Airborne Magnetometers: It offers solutions to: map targets, geology and geologic structure in mineral exploration and mineral prospecting; perform frontier evaluation, augment seismic data in hydrocarbon exploration; detect unexploded ordinance (UXO); map pipelines and other cultural objects in environmental and engineering investigations; map aquifers and faults in groundwater work.

Overhauser Magnetometers: The Overhauser system is a revolutionary instrument developed by GEM to offer a rugged, low power and sensitive alternative to proton precession and some other alkali vapour magnetometers. Mid-range instrument with excellent benefits for subsurface exploration. GEM’s GSM-19 (Overhauser) magnetometer is a primary standard in mineral exploration and magnetic observatories and is also used in archaeology, pipeline mapping, and other engineering and environmental applications.

UAV Magnetometers: GEM’s UAV magnetometer system comes with potassium sensors (highest sensitivity) in a miniature version. Data can be stored onboard in an electronics box or transmitted during flight. Multiple day’s data may be stored in the large format memory.

Proton Precession Magnetometers: GEM’s advanced proton precession magnetometer (GSM-19T) is one of the world’s leading instruments for subsurface investigations and exploration. The Proton system is designed to fit the niche for clients who require a low-cost, yet versatile magnetometer for ground geophysical surveys.

MEXICO

Sales/Local Presence: Direct Sales from Canada covering Chihuahua, Sonora, Jalisco, Colima, and Mexico City

Years in Mexico: Since June 2005

Application: Mining & mineral exploration

CONTACT INFORMATION

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Shannon Kadoski, Marketing Manager
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Geophysique TMC
www.geotmc.com

Geophysique TMC main field of activity is geophysical ground data collection. The various methods used for these high quality surveys offer complementary tools to our clients worldwide for their drilling programs, with many years of experience in mineral exploration worldwide.

Other industries of application: geothermal, hydrocarbons.

Markets served: Latin America, North America.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Geophysical Ground Surveys:
Magnetic
Walking magnetometers, high quality proton and cesium units. Used as a basic geophysical tool, this method enables to measure the magnetic susceptibility contrasts of rock formation and thus to trace the geologic image of a sector.

Induced Polarization
High power transmitters (10kW), various electrodes configuration for readings over 500m deep. It is especially efficient for the detection of disseminated mineralization through the use of spacing and variable electrode arrangements. The various configurations enable to conduct surveys more than 500 metres underground. This method also permits to highlight rock resistivity contrasts (silicified zone, shearing zone, etc.).

Electromagnetic
For surface and borehole surveys Readings over 2 km. deep. It permits to detect conductors as deep as 150 m and to specify their physical properties through the use of an extended range of frequencies (110 – 14 080 Hz) and variable transmitter-receiver separations.

Gravimetry
High quality gravimeter to measure the variation between rock density. Measurements of the gravitational field in a series of different locations on an area of interest. The gravity measurements provide information about the densities of underground rock. There is a wide range of density between types of rocks, therefore geologists can make inferences about the distribution of strata.

Magnetotellurics
Geophysical technique that provides electrical conductivity of the rock for mining, geothermal and hydrocarbon exploration. This is a method of electromagnetic exploration where electric currents, of natural or artificial origin, continuously scour the basement. Their variations induce magnetic fields which can be detected on the surface. The magnetotelluric is particularly suitable for search of metal ores and study of geothermal sites and hydrocarbons.

MEXICO

Sales/Local Presence: Sales Office, Sales Representatives
Years in Mexico: Since 2006
Application: Exploration

CONTACT INFORMATION

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Geotech Ltd.
www.geotech.ca

Geotech offers full-service airborne geophysical surveys and exploration data interpretation. Geotech are the creators of VTEM® and ZTEM®, in addition to electromagnetics Geotech also offers magnetics, gravity, and radiometrics. Geotech is the leader in technological innovation for geophysical surveys that offer better, clearer, deeper images.

As an innovator in the design and application of detailed airborne geophysical surveys for over 30 years, Geotech provides their clients with the most advanced geophysical exploration platforms, data processing and data interpretation available in the market today.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Airborne Geophysical Surveys**
Complete range of airborne geophysical survey technologies and service enable Geotech to meet the requirements of mining, oil & gas exploration companies, government departments, and environmental and engineering agencies, worldwide. It offers proprietary airborne electromagnetic survey systems: VTEM® system (versatile time domain electromagnetic), ZTEM® system (z-tipper axis electromagnetic), and airborne surveys using widely adopted technics and technologies like Magnetic, Gravity and Gamma-ray spectrometer surveys.

**Data Processing & Interpretation Services**
Immediate and in-depth results for geophysical survey data processing and interpretation. Geotech provides expert data processing for airborne geophysical surveys. Data compilation is done progressively during each survey, with preliminary maps available immediately after the flying is complete. Final data processing is completed at the Geotech office in Canada. Geotech uses the latest data processing tools and techniques to provide a wide range of final geophysical survey products such as maps, resistivity-depth sections, and data profiles.

**MEXICO**

**Sales/Local Presence:** Direct Sales from Canada

**Years in Mexico:** Since 2004

**Application:** Mining, oil & gas, environmental, engineering, and government

**CONTACT INFORMATION**

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sales@geotech.ca
G.L. Tiley & Associates Ltd. was incorporated in 1972 to provide engineering services related to mine hoisting systems, rotating machinery, and controls for industrials drive systems. In keeping with this background, Tiley has developed expertise in headframe, hoist room, and shaft guide system design, as well as custom hoist control systems, incorporating modern PLC-based controls and computer based HMI graphical operator interface systems. Departments: mechanical design and services, electrical design and services, structure design and services. Project management and controls.

### PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

<table>
<thead>
<tr>
<th>Conceptual Analysis</th>
<th>Studies and analysis certified by our registered professional engineers, which can include complete written reports for in-house use or submission to outside organizations. Analysis offered: mechanical, electrical and structural.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Administration</td>
<td>This area conducts in-plant and on-site inspections and evaluations, handle project co-ordination, provide supervision of dismantling, moving, and installation of equipment; G.L. Tiley &amp; Associates also perform commissioning and final acceptance tests.</td>
</tr>
<tr>
<td>Design</td>
<td>The area will prepare specifications and designs based upon client requirements and standards, as well as all applicable safety and regulatory standards. Services offered: mechanical, electrical and structural design.</td>
</tr>
<tr>
<td>Testing and Inspections</td>
<td>Assortment of test and measurement equipment - from chart recorders and transducers to a portable tri-axis decelerometer. Services offered: mechanical, electrical and structural testing and inspections.</td>
</tr>
<tr>
<td>Installation Support</td>
<td>Our civil, mechanical and electrical engineers will work with the client, to ensure all concerns pertaining to their hoist installation. For the most efficient and reliable operation of clients hoist, structural, mechanical and electrical installations need to be assured and must reflect one another. Services offered: mechanical, electrical and structural support.</td>
</tr>
</tbody>
</table>

### MEXICO

**Sales/Local Presence:** Direct Sales from Canada  
**Years in Mexico:** Since 2012  
**Application:** Mine operation

### CONTACT INFORMATION

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Hepburn Engineering Inc., based in Toronto, Canada, is a recognized leader in the design and supply of mining, marine and industrial equipment to clients around the world. Hepburn supplies and designs full mine hoisting and marine replenishment systems with electrical controls fully integrated, digital drives, digital security monitors, PLC operational systems and lifting management software.

Other industries: mining, marine, offshore oil industry.

### PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

**New Drum & Friction Hoists & Winches**

In the mining sector, the main products are mine hoists and shaft-sinking winches, electrical controls for use in underground mine operations. Hoist types include double drum, single drum, friction (Koepe), sinking hoists and escape hoists. Shaft sinking winches with line pull up to 150,000 lb.

**Mechanical Components**

Disc brake systems, clutches & gear sets, replacement drums, drum shells, head & deflector sheaves.

**Field Service**

Inspection, technical studies, safety audits, start-ups and training.

**Electrical Drives & Controls**

Digital drives & controls, digital safety monitor, Hepburn Hoist Manager.

**Software Solutions**

Hepburn Hoist Manager: online hoist operating and maintenance system. Hepburn Hoist Reporter: real time web based reliability and production reporting system. Hepburn Hoist Care: remote access support for mine hoist via internet.

**OEM Parts for Hoists**

Parts built by Hepburn, CIR, Westinghouse, FH&B and Ottumwa.

### MEXICO

**Sales/Local Presence:**  
Sales Office  
State of Mexico

**Years in Mexico:**  
Since 1973

**Application:**  
Mine construction, mine operation

### CONTACT INFORMATION

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Horne Conveyance Safety Ltd.

www.horne-group.com

The Horne Group has over 30 years’ experience and is a global leader in providing advanced engineered solutions in Mine Hoisting and Conveyance Safety and Impact Arresting, kinetic energy absorbing technologies and cage and skip holding systems in the mining industry. Horne’s position in South Africa and Canada is putting the company in a position to expand its presence internationally in the most active and rapidly growing mining markets. Through technology and innovation, Horne strives to create a safer environment in each and every mine that implements Horne’s technologies.

Other markets attended: construction, infrastructure, rail.

Markets attended: Latin America, North America, Australia, Africa and Indonesia.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Levelok
Levelok provides for the safe and rapid transfer of men, material and ore with mine conveyances used in vertical shafts. Hydraulically powered clamps hold the conveyance firmly in position during the loading process. On system de-activation, there is a controlled release of the clamps, which allows the conveyance to slide, and safely take up the rope stretch, without any bounce or oscillation.

E-FAS
The Levelok Emergency Fall Arrest System stops falling cages and skips in a mining shaft in case of rope failure.

Technogrid
Technogrid systems provide predictable impact energy absorption outcomes with controlled deceleration and predicted reaction forces. Technogrid® is a strain energy absorption device that will absorb the kinetic or potential energy of a moving object, acting as a safety net against a wide range of motion energy impacts. This prevents costly damage to equipment and surrounding infrastructure.

Technopost
The Technopost is a deresting devise or deceleration device used to stop moving trains and wagons out of control and is designed to fold flat between the rails to allow traffic flow.

MEXICO

Sales/Local Presence: 3 Distributors
Chihuahua, Monterrey and San Luis Potosí

Years in Mexico: New to the market

Application: Mine operation

CONTACT INFORMATION

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Batsa del Centro, San Luis Potosí, S.L.P.
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Gwenaële Archer,
VP Group Marketing
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Mine Hoists International Limited offers a single-source supply of all mine hoisting plant services to the North American and international mining industries. Mining Equipment has been supplying the mining and tunneling industries with new and quality rebuilt underground equipment. Mining Equipment also specializes in rail mounted equipment.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Mine Hoists**
- Double drum mine hoists, single drum mine hoists, stage winches (rent only), utility hoists man riding (rent only) and hoist motors.
- Experience and specialized services: sale of used hoists, selection and procurement of hoists to suit client requirements, outsource design engineering and refurbishing of used hoists, valuation of existing hoisting plants, recommendation of modifications to existing hoisting plants, purchase of used hoists, rental of winches and man-riding utility hoists, sale or rental of sheave wheels.

**Jetair Axiflow Fans**
- Jetair has a wide selection of fans available, from three horsepower to 400 horsepower and from 18 inch diameter to 84 inch diameter. All of Jetair’s blades are now forged instead of cast. Forged blades are much stronger than castings, housings on all fans are constructed out of 1/4 inch steel plate and flanges are 3/8 inch steel for greater strength.
- Jetair fans are both static and dynamically balanced, Jetair uses spun aluminum nose cones that will withstand tough treatment. Jetair offers a full line of ventilation accessories. Heavy-duty silencers, inlet bells, discharge cones and screens.

**Mining Equipment**
- Locomotives with planetary drives and wet disc brakes 15-35 ton class and in the smaller 4-12 ton range. Most of the new locomotives feature a hydrodynamic three speed transmission with lock-up torque converter and engine exhaust brake and integrated wet disk brakes.
- 25 ton can be used in underground or surface mining, in tunneling or construction projects. The 25 ton can be built with various engines and drive components, all of which affect speed, power and tractive effort.
- Eight rubberized cushioning pads four at each axle, are designed to compensate for uneven track and provide a smooth ride.
- Air brake controls are provided for train car brakes (20 cfm air compressor). The frame is ladder type construction using A36 steel. The plates are CNC cut to ensure precision and consistency.

**MEXICO**

**Sales/Local Presence:** Direct Sales from Canada covering Northern Region

**Years in Mexico:** Since 1980’s

**Application:** Mine operation

**CONTACT INFORMATION**

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ABC Ventilation Systems
www.abcventilation.com

ABC is committed to the design, development and production of high performance coated fabrics tailored to the rigorous conditions of underground mine and tunnel ventilation. ABC’s manufacturing capabilities include high strength polyester textiles, polymer compounding as well as extrusion, screen and knife coating methods to offer the industry’s broadest range of PVC coated fabrics designed specifically for ventilation ducting. ABC manufactures hoses and fans for use in mines and can also help with the design of the ventilation system.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Ducting Systems
MineVent™ Ducting: high pressure ventilation ducting used to supply positive pressure ventilation for mines and tunnels. Produced in standard diameters from 300 mm to 3100 mm (12”-122”) in section lengths up to 500 metres (1640’). ABC’s PVC coated fabrics offer exceptional pressure capacity, abrasion and tear resistance, the entire line of products meet international Flame Resistance standards such as (MSHA, DIN, NRC).

TwinDuct™ Oval: ABC’s flexible ventilation is suitable for ducting runs up to 600 meters. Designed for tight headings that require additional headroom with maximum airflow, offering a 20% improvement that decreases damage to the ducting and allows engineers to maximize the size of underground equipment without decreasing the diameter of ventilation ducting. Available in diameters ranging from 450 – 1500 mm (18”-60”) and standard section lengths of (25’ – 50’).

MineDuct™ Spiral: an extremely durable flexible ducting product used in negative pressure ventilation or as elbows in positive pressure ventilation systems. Manufactured in diameters from 200 mm to 2200 mm (8”-87”) in standard section lengths of 7.5 meters (25’), it is offered in a range of pitch options from 50 mm to 150 mm (2"-6").

Fiberglass Rigid Ducting: Manufactured using the filament wound method in order to provide the highest strength to weight ratio possible. Duct systems from 50mm (2”) diameter up to 2440mm (96”) diameter and can be manufacture in either 3.05 m (10’) or 6.1 m (20’) individual sections.

Fans
SoundTrap or mixed flow fan options, offer the quietest fans in the underground industry. All fans come bearing the AMCA seal, guaranteeing the airflows specified. Fans come in sizes ranging from 457-1829 mm (18-72”) diameters covering a wide variety of airflows and pressures.

Frequency Inverters
Fans are offered with matching frequency inverters with the built in motor protections designed for the harshest environments.

Dedusters
We have a complete line of wet and dry deducting units to remove dust from mines or tunnels.

MEXICO

Sales/Local Presence: Direct Sales from Canada
National Coverage

Years in Mexico: Since 2001
Application: Mine construction, mine operation

CONTACT INFORMATION

CANADA
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thorinson.gary@abcventilation.com
Atlantic Industries Limited (AIL) is a global leader in engineering solutions for the mining industry in structural plate, MSE retaining walls, prefabricated bridges and corrugated pipe. AIL mining offers solutions for mine site infrastructure like: road arches, rock fall protection, vertical shaft structural liners, crusher walls and ramps, portals and canopies, conveyor tunnels or bridges.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Plates**
- Ultra-Cor: combines all the advantages of lightweight construction with previously-unheard-of strength and durability.
- Super-Cor: hot-dipped-galvanized, deep-corrugated, structural plate for larger applications, revolutionary alternative to conventional bridges.
- Super-Cor flange connection: extends structural plate’s application range such as vertical shafts and rock fall protection.
- Corrugated steel pipe: economical, strong, lightweight and easy to install, available in round or pipe arch profiles.

**Structural Walls**
- Vist-A-Wall MSE structural walls: economical system for retaining walls, crusher walls, steepened slopes and erosion control, heavy-duty, black or galvanized, steel wire interlocking wall and mat construction.
- Grid-Strip: simplified and standardized soil reinforcing strip.
- AIL sound walls: an industry leader in sound mitigation.
- Bolt-A-Bin: economical, strong and versatile cellular bin-type retaining wall or abutment system.
- Big R prefabricated bridges: permanent or temporary applications, strong, able to withstand heavy-duty loading.
- Gabions: strong and lightweight galvanized steel mesh 83 mm (3.3”) that holds face alignment with machine filling.
- Guiderail systems: lightweight and easy-to-install.
- Geotextiles: woven and non-woven fabrics.

**MEXICO**

**Sales/Local Presence:** Exclusive Representative Nation wide

**Years in Mexico:** Since 2009

**Application:** Infrastructure, mine construction

**CONTACT INFORMATION**

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Hurley Ventilation Technologies (HVT) is a manufacturer of underground ventilation systems. HVT is an ISO 9001-2008 certified company specializing in the manufacture of new ventilation fans, systems, parts and accessories. HVT Inc’s Canadian manufacturing facilities produce high quality, affordable newly manufactured ventilation products daily, supported by sales offices in the US, Mexico and representatives throughout the world. We expend considerable effort to ensure that our products are the best the world has to offer.

HVT Inc’s repair and rebuild service facilities are supported by the capabilities of a company that has been developing, re-manufacturing, designing and/or building new fans for over 30 years. Engineering design, laboratory testing and research and development projects enable HVT Inc. to repair fans that perform to original new product performance characteristics and last longer than ever before. Engineering, technical and mechanical consulting assistance is available.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

Main Axial Mine Ventilation Fans

Hurley produce quality, affordable, rebuilt and newly manufactured ventilation products daily for the mining, milling and construction industries. The HVT Adjustable Pitch Axial Vane Fan line was designed specifically to blend aerodynamic performance and ease of application. These fans are suited for construction, tunneling, industrial and mining applications, from 100,000 to 500,000 cfm and 0.5” to 24” total pressure and sizes ranging from 72” to 108”. The design of these fans has been refined in order to offer the most reliable, maintainable, and cost effective equipment in the industry.

Auxiliary Axial Mine Ventilation Fans

HVT has a fan to meet a wide range of applications. HVT offers a series of adjustable pitch vane and tube axial fans for construction, tunneling, industrial and mining applications from 1,000 to 300,000 cfm and 0.5” to 20” total pressure. HVT Type 1000, 2000 & 3000. The HVT Adjustable Pitch Vane Axial Fan line was designed specifically to blend aerodynamic performance and ease of application.

Accessories

HVT offers a wide range of accessories like: vibration monitor, space heaters, skids mounts, vertical supports, VDF drivers, starters-soft start, RTD’s, adapters, back draft damper, outlet cone, inlet bell and screen, silencer, air movers, rotor assembly, nose cones, hubs and blades.

**MEXICO**

Sales/Local Presence: **Direct Sales from Canada and Distributors**

Years in Mexico:

Application: **Mine construction and operation**

**CONTACT INFORMATION**

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Bart Hurley, General Manager

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McCloskey International Ltd.

www.mccloskeyinternational.com

McCloskey International leads the screening and crushing industry with a complete line of equipment including: crushers, vibrating screeners, trommels and stacking conveyors. Built with power and durability as standards, every product is field-tested before being deployed through a global network of dealers into a wide range of industries which include quarries, aggregates processing, road building, mining, construction & demolition, waste recycling, compost screening, and wood recycling.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

- **Crushers**: Full line of mobile crushing plants, including jaw, cone, horizontal shaft impact, and vertical shaft impact crushers.
  
  The "J" series jaw crushers offer a range of sizes for various applications, from high production, contractor-friendly entry models to the range-topping J50, which has the widest jaw in its class. Both the "C" such as the C44 cone crusher that offers high material capacity and throughput, large stockpile capacity and customer focused features such as heavy-duty eccentrics, applying more energy to material in the screenbox to accelerate throughput.

- **Vibrating Screeners**: Built around the industry leading High Energy Screenbox. The High Energy Screenbox maximizes vibratory power with a longer stroke and heavy-duty eccentrics, applying more energy to material in the screenbox to accelerate throughput. With the 5130 Screener, you get class-leading 5-Range features like the aggressive High Energy Screenbox and user-friendly operation. The S130 is also available as a double or triple deck. The S190 (double or triple) leads with the most advanced and innovative vibratory screening plant on the market. Features such as adjustable screenbox angles allow adaptability to a wide range of applications including mining, coal screening, and aggregates processing.

- **Trommel Screeners**: With over twenty years of experience, McCloskey is the world’s leading trommel manufacturer and has pioneered its design. Over this time the 621 has proven to be durable and reliable in large screening applications. The 621 Trommel is suited for large heavy duty applications. 733 trommel screeners are high production machines with 160 degree radial fines conveyor and an oversize end conveyor for extensive stockpiling capabilities.

- **Conveying Systems**: McCloskey stackers have a unique and patented counterweight system and are designed to be the most practical solution on the market. With features such as the pivoting discharge conveyor, McCloskey stackers can swivel through a radius of 180°, ensuring greater stockpile capacity without moving the installation, equaling less downtime for operators. A full line of tracked stackers allows operators to easily and efficiently move the stackers into position.

**MEXICO**

**Sales/Local Presence:**  
**Sales Office**  
**Chihuahua**  

**Years in Mexico:** Since 2011

**Application:** Mining, aggregates, road building, construction & demolition, recycling

**CONTACT INFORMATION**

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Xstrata Process Support

XPS Consulting and Testwork Services is a metallurgical technology services and testwork business based in Falconbridge, Ontario, Canada and at various operating sites around the world. We are available to provide quality technical expertise for orebody characterisation, operational support, growth initiatives, and project development in the following commodity areas: nickel, copper, zinc, gold, PGMs, industrial minerals and rare earth elements. Located in a state of the art laboratory building in the Sudbury mining district, XPS is uniquely positioned at the heart of base and precious metals mining, milling and smelting operations. We remain current with new developments in the industry. We also place teams and individuals at various client operations in support roles as well as at Glencore operations.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

Process Mineralogy
XPS Process Mineralogy consists of a blend of skilled mineral processing and mineral science personnel. Process Mineralogy utilizes mineral processing, quantitative mineralogy, sampling and statistics to meet the strategic short and long-term needs of the mining industry, through: ore characterisation studies; quantitative mineralogy (QEMSCAN, Microprobe, TESCAN, XRD, Core Advantage); gold mineralogy and metallurgy; flotation mini pilot plant (MPP) technology, sample selection and metallurgical composite formulation; high confidence flotation testwork; comminution optimization - crushing and grinding circuits; gravity and physical separations, and process troubleshooting; flowsheet development in PGM, gold, base metals, and rare raths; mixed collector evaluations using lab scale factorial design of experiments; concentrator surveying; custom feed evaluations, economic and synergy analysis; statistical validation of plant trials; plant support, start-up and consulting services; JKSimMet Grinding Process Simulation; mineral processing plant design criteria; pilot scale crushing and blending; XPS certified assay standard reference materials.

Extractive Metallurgy
XPS Extractive Metallurgy is a team of skilled pyrometallurgists and hydrometallurgists focused on providing support for both the long-term strategic growth and shorter-term plant operational needs of companies requiring expertise in extractive metallurgy. We complement our skills with the knowledge of our XPS partners in the fields of process control, materials technology and process mineralogy. The group is well equipped to address your metallurgical needs through on-site plant support, process modeling and hydrometallurgical and pyrometallurgical testwork on both a laboratory and pilot plant scale. Services offered: on-site plant support for smelters and refineries; laboratory and/or pilot scale testwork incorporating atmospheric or pressure leaching, fluid bed roasting or smelting, and associated unit operations, to recover base metals from sulphide or oxide ores; flowsheet and process design criteria development for new projects or plant expansions; process simulation/modeling for new or existing metallurgical plants, using Factsage®, Metsim®, ARENA®, COMSOL®Venture style analysis studies for business/custom feed opportunities; venture style analysis studies for business/custom feed opportunities.

Process Control
XPS Process Control provides key support to several global operations and technical expertise for instrumentation and process control solutions in mining, mineral and metallurgical processes. Our skill sets and knowledge covers: Instrumentation & Monitoring; Mining and Mineral Processing; Hydrometallurgical and Pyrometallurgical Processes; Control Engineering, & Advanced Control, Modelling (including PCA/PLS for failure/fault detection); Alarm System Analysis and Rationalisation; Training and Skills Development.

Materials Technology
XPS Materials Technology plays a key role in plant reliability and asset management. We are available to provide quality technical expertise in the following areas: selection of materials of construction, corrosion, wear, welding and root cause failure analysis. The objective is to improve the reliability of critical equipment through appropriate implementation of well proven materials engineering practices at essential stages of design, procurement and operation. We have extensive field experience in mining and process plant equipment, such as Mines, Concentrators, Smelting Plants, Refineries, and Acid Plants.

Plant Support
The Plant Support Group offers a range of services focusing on in-plant, hands-on technical assistance. Our team of experienced metallurgists are available to assist with commissioning activities, process optimization, process review and de-bottlenecking, project management, troubleshooting, concentrate marketing development, plant surveys, sampling and modelling. It can also provide metallurgists and technicians on contract to support your needs.

MEXICO
Sales/Local Presence: Direct Sales from Canada
Years in Mexico: 
Application: Consulting and testwork services

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Sei Industries Ltd.

www.sei-ind.com

Established in 1978, SEI Industries Ltd. is an industrial fabric products manufacturer best known for its invention of the world-famous Bambi Bucket which is used by helicopters to drop water on forest fires. Over the past three decades, SEI has cultivated a unique, innovative capability not readily found elsewhere in the world by designing, engineering and manufacturing products from industrial fabric materials that provide advantages not available with products made from traditional rigid materials. Today, the company is divided into two divisions; remote site/environmental and aerial.

SEI Industries Ltd. provides turnkey fuel, water and chemical systems for remote sites.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
<thead>
<tr>
<th>Aerial Firefighting Equipment</th>
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<tbody>
<tr>
<td>SEI services more than 90% of the world's aerial firefighting water bucket market. Bambi Bucket systems, Bambi Bucket accessories, FAST Bucket systems, service centres, training and consulting.</td>
</tr>
<tr>
<td>Our bucket fabric selection considers the perfect blend of critical elements; tensile strength, puncture-proofing, abrasion resistance and resilient coating adhesion.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ground Firefighting Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Fireflex product group provides wildland and rural firefighting organizations with reliable water containment solutions. Our product line offers a variety of firefighting tools that are collapsible, easy to transport and quick to set-up: Pumpkin tanks, Heliwell water reservoirs, stilwell flyers (blivets), water backpacks.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remote Site Fuel/Water Logistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>The remote site division primarily focuses on manufacturing collapsible tanks, also known as pillow tanks or bladder tanks, which are used for liquid handling in isolated remote sites where labor, tools and heavy equipment are limited or nonexistent. Pillow tanks are ideal for remote sites because they can be folded up to a fraction of their deployable size, making them easy and cost-effective for transport to remote locations. Pillow tanks are also durable, require almost no site preparation and can be relocated easily.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fire Ignition Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>We offer two world-leading fire ignition product lines — Premo and Dragon Fire. SEI provides outstanding sales, service and support to ensure job readiness and safe, effective burn operations. <em>Fire Ignition Spheres, Green dragon, Premo PSD, Pyroshot hand launcher, Red dragon PSD.</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spill Prevention and Secondary Containment</th>
</tr>
</thead>
<tbody>
<tr>
<td>We manufacture a variety of secondary containment berms that can be used to prevent fuel or chemical spills. Drip Defender is a superior, all-purpose spill pad that is an excellent addition to the basic spill kit. The Mini-Berm is a suitable option for use when transferring material from one small container to another and it can also be used as part of a small scale, decontamination wash station.</td>
</tr>
</tbody>
</table>

Insta-Berm (L-Rod) and Insta-Berm (Frame) are for larger secondary spill containment berms. The Insta-Berm (L-Rod) is designed with L-shaped rods that fold down to allow entry into the containment area by a vehicle while the Insta-Berm (Frame) is supported by an aluminum frame that is assembled with one tool. Ride-Side Berm is designed to allow containment of materials during the refueling of vehicles or as secondary containment of tanker vehicles. This berm has a collapsible wall that allows easy access for vehicles. Track Trays are designed specifically for rail car containment during operations or emergencies and can be deployed in approximately three minutes.

**MEXICO**

<table>
<thead>
<tr>
<th>Sales/Local Presence:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sales Office</strong></td>
</tr>
</tbody>
</table>

**Years in Mexico:**

**Application:**

**Security**

**CONTACT INFORMATION**

<table>
<thead>
<tr>
<th>MEXICO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calle 15 No. 75</td>
</tr>
<tr>
<td>Col. Coyoacán, 04870, México DF, México</td>
</tr>
<tr>
<td>55 5679 5173</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANADA</th>
</tr>
</thead>
<tbody>
<tr>
<td>7400 Wilson Avenue</td>
</tr>
<tr>
<td>Delta, British Columbia, V4G 1H3, Canada</td>
</tr>
<tr>
<td>604 946 3131</td>
</tr>
<tr>
<td>Eduardo Suzin, Outside Sales Latin America</td>
</tr>
<tr>
<td><a href="mailto:eduardo@sei-ind.com">eduardo@sei-ind.com</a></td>
</tr>
</tbody>
</table>
STC develops and manufactures a wide range of safety boots and shoes. Our four segments are: mining, fireboots, defence-security and general purpose. Our products are used in Canada, Africa, South-America as well as the USA by key mines.

Our products are suitable for underground mining (rubber- waterproof boot), above ground mining and general safety for the support staff. Our wide safety toe and ergonomic design allows for the boots to be very comfortable and to last a long time. Within our line, you will find products that are suitable from - 70 C to + 40 C.

STC is located in Montreal, Canada and is a modern distribution facility. We also have a development office in Guangzhou China and sales offices in Cambridge, Ontario, Canada as well as Santiago, Chile.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trump</td>
<td>General safety purpose boots, upper material highly resistant to chemical and acid.</td>
</tr>
<tr>
<td>Keep</td>
<td>General safety purpose boots, upper material highly resistant to chemical and acid.</td>
</tr>
<tr>
<td>Metpro</td>
<td>Safety boot with internal metguard.</td>
</tr>
<tr>
<td>Titanium</td>
<td>Waterproof, lightweight internal metguard safety boot.</td>
</tr>
<tr>
<td>Atlas</td>
<td>Waterproof lightweight safety boot.</td>
</tr>
</tbody>
</table>

**MEXICO**

Sales/Local Presence: Distributor Chihuahua

Years in Mexico: New to the market

Application: Exploration, mine operation, mineral processing

**CONTACT INFORMATION**

**MEXICO**

Grainger
Av. Miguel de Cervantes No. 125
Complejo Industrial Chihuahua,
Chihuahua, Chihuahua, México

01800 800 8080
www.grainger.com.mx

**CANADA**

Michel Bisson, Chairman and CEO
514 355 0026
bissonm@stcfootwear.com

10100 Colbert St.
Amjou, Quebec,
H1J 2J8, Canada
Arkbro Industries designs and manufactures mining construction equipment and provides raise mining consulting services to the mining industry for applications in raise mining, horizontal drilling, long-hole drilling and production mining. Equipment supplied by Arkbro includes the ABI-5 Raise Climber, and the ABU-600 Universal Rack and Pinion Hoist.

Since 1967, Arkbro Industries has been exceeding customer expectations by designing products and offering services that are safe, reliable and efficient.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raise Climber</td>
<td>Arkbro designs, manufactures and sells or leases raise climbers and related equipment to be used for horizontal drilling to enlarge pilot raises for ventilation shafts, transport shafts etc., as well as for production mining (long hole drilling) of narrow ore veins or wide ore bodies.</td>
</tr>
<tr>
<td>Universal Rack and Pinion Hoists</td>
<td>Ideal for use in various applications, especially in mines and underground shafts for inspection, servicing and repairing of cables, emergency egress and interval hoisting. The quick installation due to the rack and pinion system and the limited space requirements (no machine room is needed), makes the ABU-600 Hoist the most economical and practical solution for your specific project.</td>
</tr>
<tr>
<td>Parts &amp; Services</td>
<td>All Arkbro Industries customers can rely on our Parts and Service Center for excellent support. Our knowledgeable staff will be able to assist you in ordering parts for your equipment and in troubleshooting the operation of your equipment. Our objective is to assist our customers in efficiently operating their equipment and to minimize any down time. The full range of spare parts for all our equipments is always in stock and can be delivered on demand. We are committed to our customers and we ensure that the parts and support they need to operate are readily available.</td>
</tr>
</tbody>
</table>

**MEXICO**

Sales/Local Presence: Direct Sales from Canada

Years in Mexico: Application:

Mine operation and construction

**CONTACT INFORMATION**

**CANADA**

889 Pantera Drive, Unit 1, Mississauga, Ontario, L4W 2R9, Canada

Mohammed Alwazani, General Manager

905 602 9291

malwazani@arkbro.com
B&D Manufacturing

www.bdmfg.com

Founded in 1980, B&D Manufacturing is a dynamic Canadian company that designs, manufactures and distributes innovative products and technologies to increase production and improve safety for industries globally. Originally established as the manufacturer of the globally recognized Portable Align Boring Machines, their product line has expanded to include products designed to support equipment for mines & mills, open pit trucks, open pit shovels and construction. In addition to our OEM product line, we support a variety of clients with custom design, fabrication and manufacturing, on-site repair and rebuild services.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Package</th>
</tr>
</thead>
</table>

MEXICO

Sales/Local Presence: Direct Sales from its Representative for USA, Mexico & South Africa located in Nevada, USA

Years in Mexico: Not available

Application: Mine operation

CONTACT INFORMATION

MEXICO
Jerry Jordt, Sales Manager
775 934 7720
Nevada, USA
jerryjordt@frontiernet.net

CANADA
Wayne Desormeau, Global Mining Manager
705 840 3295
wayne.desormeau@bdmfg.com
sales@bdmfg.com
MacLean Engineering

www.macleanengineering.com

MacLean Engineering is a privately owned Canadian company that specializes in the design and manufacture of underground mining mobile equipment, and provides practical and innovative solutions for underground tunneling and mining operations. MacLean Engineering head office and main manufacturing operations are located in Collingwood, Ontario, Canada. MacLean Engineering understands the importance of after-market support and service. As such, MacLean Engineering has established a network of sales and support locations in Canada, the United States, Australia, South Africa, Guatemala, Mexico and Peru.

### PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

<table>
<thead>
<tr>
<th>Ground Support Machinery</th>
<th>The benefits of safety, productivity, versatility and quality of installation combine to provide the ideal tool for the mine development cycle and rehabilitation operations. Scissor bolters for both standard and small section developments; Shotcrete Sprayers &amp; Transmixers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ore Flow Facilitation</td>
<td>Designed to eliminate ore flow blockages and release trapped reserves above the draw point brow safely and effectively. Providing models such as: BH-3 Blockholder Secondary Breaker and SB-9 &amp; SB-12 Secondary Breaker.</td>
</tr>
<tr>
<td>Utility</td>
<td>Several different models designed to provide a safe work platform for installation of services in tunnels, quick transport for personnel or fuel inside the mine. Providing models such as: scissor lifts, boom trucks, anfo loaders, personnel carriers, fuel/lube trucks, cassette systems, emulsion loaders and mine mate series attachments.</td>
</tr>
<tr>
<td>Drilling</td>
<td>MDA excavator rock drill, designed to perform a variety of quarrying operations, to secondary breaking, to construction drilling. Long Tom rigs, designed to alleviate the negative aspects of hand held drilling and to improve drilling productivity.</td>
</tr>
</tbody>
</table>

### MEXICO

**Sales/Local Presence:** Exclusive Representative

**Queretaro**

**Years in Mexico:** Since 2009

**Application:** Underground tunneling and mining operations

### CONTACT INFORMATION

**MEXICO**

<table>
<thead>
<tr>
<th>Av. de las Fuentes No. 82 Int. 8, Parque Industrial Finsa, 76240, Querétaro, Querétaro, México</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rene Valle, General Manager, Mexico-Centralamerica 618 823 0543 <a href="mailto:rvalle@macleanengineering.com">rvalle@macleanengineering.com</a></td>
</tr>
</tbody>
</table>

**CANADA**

<table>
<thead>
<tr>
<th>1149 St Matthews Ave, 2nd Floor, Winnipeg, Manitoba, R3G 0J8, Canada</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tony Caron, General Manager for Latinamerica 705 445 5707 <a href="mailto:tcaron@macleanengineering.com">tcaron@macleanengineering.com</a></td>
</tr>
</tbody>
</table>
With 37 years in the underground mining sector, Mansour Mining Technologies Inc. is the largest Canadian provider of comprehensive ground support solutions, smelter hardware, mine ventilation, rock drilling tools, and custom fabricated products.

MMTI’s head office and Canadian manufacturing facility is located in Sudbury, Ontario. Over the past several years, MMTI has expanded to include sales and distribution centres in Saskatoon, Saskatchewan; Timmins, Ontario; Val d’Or, Quebec and has most recently added manufacturing capabilities to the sales and distribution office in Chihuahua, Mexico.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

| Ground Support | Rock and cable bolts, expansion shells, friction sets, washer plates, nuts, cable grip. |
| Mining Supply | Blasting poles, rock bolt dolly, mine mesh screen, nuts, scaling bars, raise accessories, eye bolts, mining roof ties. |
| Smelter Refinery | Reamer punch bars, furnace rods, breaker steel, couplers. |
| Ventilation | Ventilation pipe, later branch elbow fittings, air damper, reducer ducting, couplers. |
| Drill Bits & Steel | Drill bits, drill steel. |

**MEXICO**

Sales/Local Presence: **Subsidiary Office Chihuahua**

Years in Mexico: **Since 2010**

Application: **Mine operation - underground**

**CONTACT INFORMATION**

**MEXICO**

Mansour Mining Technologies de México
Rudyard Kipling No. 11311,
Complejo Industrial Chihuahua,
Chihuahua, Chihuahua, México

David Ruiz Maldonado, General Manager
614 482 0820
d.ruiz@mansourmining.com
info.mx@mansourmining.com

**CANADA**

2502 Elm Street
Sudbury, Ontario,
P3E 4P8, Canada

Jean-Guy Coulombe, General Director
705 682 0671
j.coulombe@mansourmining.com
Marcotte Mining Machinery Services Inc.

Marcotte Mining Machinery Services Inc., is an innovator, designer and manufacturer of durable, reliable and low maintenance cost utility vehicles for underground mines. In continuous operation since 1979 Marcotte has developed a wide range of service vehicles specifically suited to the harsh underground environment. Located in Sudbury, Ontario, Marcotte conducts product development from concept to finished machine all within our modern 35,000 square foot manufacturing plant.

Registered to ISO 9001 and CWB, CSA Standards W47.1 Marcotte is committed to quality and safety. Service and parts support is available 24/7 to meet around the clock requirements of mine operations. Complete or partial utility vehicle rebuilds are available and form an important component of Marcotte’s business. Marcotte provides engineered solutions for your utility vehicles application.

Marcotte has a large selection of underground mining utility vehicles to suit all your needs. Packages are available in several model sizes to support AN/FO loaders, crane trucks, man carriers, flat decks, fuel/lube trucks, scissor lifts, forklifts, wet & dry haulers, fan handlers, emulsion loaders, personnel carriers, shotcrete transport, shotcrete spraying vehicles and more.

Units are fully tested and certified to all load, stability, safety and industry requirements. Marcotte Mining Machinery Services know the harsh environments that their units are expected to perform in and they’ve designed them to meet these harsh conditions. Their confidence in manufacturing the strongest, most reliable carrier allows Marcotte to offer a 10-year warranty on frame weldments.

Marcotte is the OEM of the original Minejack® Carrier, which is the base design used by most utility equipment suppliers. Marcotte’s RL6000 Scissor Lift is the longest lasting unit in the market today with the lowest operating cost per hour.

MEXICO

Years in Mexico:

Application: Mine operation

CONTACT INFORMATION

CANADA
2291 Lasalle Boulevard
Sudbury, Ontario,
P3A 2A9, Canada

Geraldo Neto, International Sales Manager
705 566 5030
geraldono.mar-inc.com

Joe Laprairie, Sales and Marketing Manager
705 566 5030
jlaprairie@mar-inc.com
McDowell Brothers is a Toronto based company specialized in rental, sales and service of heavy construction & mining equipment. In the mining sector the company offers reconditioned and remanufactured underground equipment and parts.

McDowell Brothers offers rapid shipment anywhere in the world and sale the following brands: Sandvik, Driftech, CAT, Atlas Copco, Getman, Cannon, Gardener Denver, Marcotte, Eager Beaver Trailers, Kawasaki KCMA Corporation, Link-Belt, Hammeroc, Bobcat, AMMANN, Cleveite Engine Parts, Sullivan Palatek, IPD, Bomag.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Products/Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Articulated dump trucks, bobcat, bulldozers/crawler tractors, compactors, excavators, forklifts, graders, loaders, mobile structures, trailers, crushers, cranes/draglines, forestry, gensets, highway trucks, compressors, pumps, containers, aggregate/asphalt plants/crushers, electrical equipment.</td>
</tr>
<tr>
<td>Underground and Surface Mining Equipment</td>
<td>Loaders, trucks, jumbo drills, anfo loaders, utility carriers, scissor lifts, graders, roofbolter, mining attachments, mining parts, diesel and electric locomotives, drills, mucking machines, pumps, fans, jacklegs, electrical, mine support, milling equipment, slushers/tuggers.</td>
</tr>
</tbody>
</table>

**MEXICO**

**Subsidiary Sales Office**

Queretaro

**Sales/Local Presence:**

**Years in Mexico:**

Since 1989

**Application:**

Mine operation - underground

**CONTACT INFORMATION**

**MEXICO**

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San Juan del Río,
Querétaro, México

Antonio Sein, Sales
427 112 9828
mexico@bmcdowell.com

**CANADA**

2018 Kingsway,
Sudbury Ontario,
P3B 4J8, Canada

Mark Allen, President
705 566 8190
mallen@driftech.com
**Mining Technologies International Inc.**

**www.mti.ca**

Mining Technologies International designs and manufactures integrated rock drilling, rock boring and material handling systems. Mining Technologies International Inc. (MTI) operates four manufacturing facilities producing a wide range of advanced mining equipment including: hydraulic drill jumbos, LHD loaders, dump trucks, shaft drilling jumbos, long hole jumbos, in-the-hole (ITH) drilling rigs, computerized drill rigs, automated ITH drills with rod handlers, rail haulage systems (chutes, rail cars and dump stations), mine locomotives, buckets, bucket lip assemblies, bucket wear parts and low profile crushing plants as well as custom designed equipment for specific underground requirements. MTI also manufactures a full complement of high quality drill string components for drilling large diameter raises, blast holes, exploration holes, and ITH applications.

### PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

| **Consumables** | MTI Consumables is ISO 9001-2008 certified and offers inspection & repair services ensuring that all MTI tools continue to operate efficiently for years to come. Buckets, blast hole, ITH, raise bore. |
| **Mobile** | MTI Mobile Equipment division produces and repair rail haulage, trucks, loaders, and jumbo & ITH drill rigs. It also produces some of the worlds best performing drilling tools, and specialize in IR Montabert conversions. MTI has continuously developed new ground engaging technologies like the MTI HydraCrusher. Drills: narrow vein, jumbo drills, CPA drills and ITH drills. Loaders: LT 70 LHD, LT 210 LHD, LT 650 LHD, among others. Rail haulage: locomotives, rail cars, dump stations, chutes. Shaft sinking: shaft jumbos and shaft mucker. Trucks: DT 704 truck, DT 1604 Truck, DT 3004 truck, among others. |
| **Cylinders** | The Cylinder Division of Mining Technologies International Inc. designs and manufactures techniques, top quality OEM replacement parts, and superior customer service. From the small independent operator to multinational corporations, whether you require a custom-built product or one of thousands off the shelf items, MTI can supply the hydraulic and pneumatic cylinder configurations that are right for the job. MTI cylinder features: meet or surpass OEM specifications, induction hardened chrome plated rods, heavy duty durable construction, Long lasting high temperature seals, Lubricated hardened steel or SAE 660 bronze bushings included, recognized global supplier and full warranty. |

### MEXICO

**Sales/Local Presence:** Direct Sales from Canada

**Years in Mexico:** Since 1994

**Application:** Mining equipment

### CONTACT INFORMATION

**CANADA**

P.O. Box 2097, Station A
Sudbury, Ontario,
P3A 4R8, Canada

**Bernie May, Sales**

bernie.may@mti.ca

**Steven Dunlop, Sales**

steve.dunlop@mti.ca

**Erin Newell**

705 692 3661

erin.newell@mti.ca
Mobile Parts Inc.

www.mobileparts.com

Mobile Parts is a Canadian company with more than 30 years of experience in manufacturing and marketing products with the highest-quality standards aimed primarily at the underground mining industry, based on consultancy, competitive prices and customer service through renowned Mexican companies.

Over the years, our product offerings and services have evolved: from truck parts to mining parts, drivelines to manufacturing, special purpose vehicles to forklifts to mine mixers.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Special Purpose Vehicles**

New trucks: MPI offers ongoing development of new trucks. We have designed trucks to carry people or objects underground for many years. All our units come standard with air conditioning. Configurations include personnel carrier, crew cab, enclosed personnel carrier, ambulance, mechanics truck, scissor lift, aerial boom and SUV.

Used trucks: completely rebuilt from the ground up in like-new conditions.

Mobile mine mixer: MPI has taken on a new line of mixers. We use the CARMIX platform and convert it for better underground use. We have added a wet disk driveline brake and integrated it to apply the spring assisted brakes upon application, we also add additional LED lighting, wheel chocks and of course, our signature white industrial strength paint to maximize the life of the unit. Over 100 hours goes into each unit to ensure that it will exceed your underground expectations. Available models: One, 2.5TT, 3.5 TT and 5.5XL.

**Services**

Machine shop: it is state of the art, and all our products serve as an expression of our quality and years of experience, as we continue to manufacture various products that reach all corners of the world.

Driveline Shop: MPI can manufacture or repair drivelines for equipment of all shapes and sizes. The drivelines are manufactured on-site to your exact specifications and are then balanced with our computerized balancer. We are capable of balancing to 3 thousandths of an inch. We stock parts for many makes and models of drivelines, from cars to mining equipment, and everything in between.

Production shop: MPI has a 10,000-square-foot shop that has 8 hoists and a 1-ton crane, which is where we build our underground equipment and assemble our components. Wet brakes, dry brakes, transmission transfer cases, power packs and electrical components for front and rear axles: Whatever you need can be made and/or assembled onsite by our qualified staff of mechanics.

**Parts**

Supported equipment: Mobile Parts supports hundreds of different makes and models of equipment, such as Jarvis Clark, Getman, Normet, EIMCO, MTI, JCI, Minejack, Wagner, Toro, Ford Axles and Toyota, among others.

Take-off inventory: we have a huge selection of take-off inventory for the Toyota HZJ79 and HZJ76, like front and rear bumpers, doors, carpeting, radios, snorkels, roof liners, 4x4 shifters, split rims and tail lights

**MEXICO**

**Sales/Local Presence:**

Exclusive Representative

Mexico City

**Years in Mexico:**

Since 2007

**Application:**

Mine operation - underground

**CONTACT INFORMATION**

**MEXICO**

Perforadoras de Minas S.A. de C.V.
Rancho Tezonapa No. 55,
Col. Campestre Coyoacán, 04938
México, DF, México

Marco Alcántara, Representative
55 5679 3810
55 5678 2062
marco_alcantara@hotmail.com

**CANADA**

2472 Evans Road,
P.O. Box 327
Val Caron, Ontario,
Canada

Willy Chirinos, Sales Latin America
51 9 9992 0341 (Peru)
wchirinos@mobileparts.com
Multicrete Systems Inc.

www.multicretesystems.com

Being established in the industry for over 25 years, Multicrete Systems offers leading-edge project solutions to customers worldwide and is the one-stop source for shotcrete application equipment, shotcrete materials, transfer systems, grouting equipment, and associated technical support.

Our energetic and multi-disciplinary team of over 100 employees includes engineers, mining professionals, and construction specialists who supply the mining and tunneling industries with technical assistance focused on supporting shotcrete, grouting, and concrete programs. We have also offered expertise and solutions in several civil construction, new construction, and restoration ventures.

PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT

- **Shotcrete Equipment**: Shotcrete is used to stabilize rock and soil, to provide support to underground frames and headings, and for the structural repair or reinforcement of cement pilings, retaining walls and dams. Applications include: repair and restoration, ground support and new construction.

  Shotcrete materials and additives: Megastick Shotcrete (dry or wet), XPR shotcrete and flash-set shotcrete, DRAMIX® STEEL fibre, Multicrete shotcrete Set accelerator, silica fume, poly fibers and SIKA® P1AF. Equipment: SIKA-ALIVA® shotcrete pumps & robotic spray arms, Multicrete shotcrete application units, Multicrete Raise Robotic applicators, Multicrete shotcrete carriers, Hybrid-Wet® shotcrete carrier, bulk underground shotcrete handling systems.

- **Concrete Equipment**: Multicrete has a wide variety of urban and remote site concrete solutions, producing and manufacturing engineered concrete/shotcrete batch plants from beginning to end. Modern technologically controlled facilities that can produce a high quality product to meet any specification. Putzmeister® concrete pumps, Schwing® concrete pumps, Concrete pumper services, mobile batch plants.

- **Grout Equipment**: Multicrete has grout equipment available for rent or purchase, including: Chemgrout® grouting equipment line, Ictus® grout pump line, MINEPRO® grout mixers & pumps line, colloidal mixers and grout mixers.

- **Production and Transportation Equipment**: Multicrete offers a widespread selection of equipment lease and purchase options like batch plants (shotcrete/concrete) and bulk transport systems.

MEXICO

- **Sales/Local Presence**: Direct Sales from Canada
- **Years in Mexico**: Since 2012
- **Application**: Mine operation

CONTACT INFORMATION

CANADA

Gustavo Zentner, Director International Business Development
204 293 9637
gzentner@multicretesystems.com

Unit 360-555 Hervo Street, Winnipeg, Manitoba, R3T 3L6, Canada
RDH Mining Equipment
www.rdhminingequipment.com

RDH Mining Equipment provides quality underground mobile mining and tunneling equipment. Our product line includes, but is not limited to: jumbo drill rigs, LHD underground loaders, scissor lifts, flatbed boom trucks, fuel and lube trucks, bolters, underground trucks, narrow vein and custom equipment, used equipment and parts.

From specifically designed pieces to remanufactured equipment, our in-house engineers keep us on the cutting edge of the industry. Each unit is built for our clients and their working environments — custom concepts and solutions to meet their exact needs.

As a global company, we have worked with clients in the United States, Canada, Mexico, Russia, Honduras, Ecuador, China, Brazil, Chile, Peru, France, Zambia, Belgium, Germany, Australia and South Africa.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Underground mobile mining and tunneling equipment – New and used**

RDH offers equipment in four main categories: drill rigs & jumbos, ground support, load and haul equipment and utility vehicles.

Equipment includes jumbo drill rigs, LHD’s underground loaders, scissor lifts, flatbed boom trucks, fuel & lube trucks, bolters, underground trucks, and narrow vein & custom equipment.

**Parts**

Our aftermarket personnel and services provide the support, training, parts, and service you need to keep your operations working efficiently and effectively.

**MEXICO**

Sales/Local Presence: **Exclusive Representative**
Torreon, Coahuila

Years in Mexico: **Since 2001**

Application: **Underground mining and tunneling equipment**

**CONTACT**

**MEXICO**

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Ciudad Industrial,
27019, Torreón, Coahuila,
México

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871 750 8777
ingetrol@ingetrol.com

**CANADA**

904 Hwy 64
Alban, Ontario,
P0M 1A0, Canada

Kevin Fitzsimmons, President
705 857 2154
kevin@rdhminingequipment.com
Rock-Tech is a Canadian manufacturer of equipment designed specifically for underground mining applications. Our years of experience in mining applications have enabled us to engineer products that are safe, cost-effective, productive and reliable. Our customers include some of the world’s largest mining companies.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

**Premium Mine Utility Vehicles**

The Titanium line of mine utility vehicles offer a variety of underground mining solutions including lifting and installation, charging and underground logistics. Maximum productivity and durability is engineered into every Titanium mine utility vehicle. Our universal platform will accommodate a wide variety of application-specific configuration to suit your requirements.

Vehicles include: electrician service mining vehicle esv85, elevating platform mining vehicle sl812, paste fill pipe handling mining vehicle pt616, crane truck mining vehicle ctm812, flat bed mining vehicle fb815, personal carrying mining vehicle pc22, fuel and lube handling mining vehicle ft812, fuel handling mining vehicle ft812.

**Stationary Rockbreaker Systems**

The Rhino Series of rockbreakers are built to handle the toughest underground environments. Our attention to machine control and ease of maintenance guarantees maximum operating productivity and uptime.

Equipment includes: XD Series specifically built to handle the rigors of underground applications that are subject to torsional loading, side bending, vibration and shock loads.

**Fuel/Lubricant Storage and Handling Systems**

SatStat has a proven history of exceeding mining regulations in the handling and storage of fuel and lubricants. Every system is designed to achieve maximum efficiency and minimize environmental risk. For over 20 years, companies around the world have relied on the SatStat to provide surface-to-face handling productivity with our world-class certified systems.

Rock Tech is the original manufacturer of SatStat fuel/lubricant storage and handling systems. Rapid implementation, nominal engineering costs and increased productivity at the face all combine to provide a rugged, portable solution to maximize uptime underground.

**MEXICO**

**Sales/Local Presence:** *Distributor Chihuahua*

**Years in Mexico:** *Since 2013*

**Application:** *Underground hard rock mining*

**CONTACT INFORMATION**

**MEXICO**

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**CANADA**

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Walden Equipment, part of the Walden Group, has become an industry leader in mine and industrial equipment. During the past 2 years Walden has grown by more than 250% and now employs over 150 people in and throughout Ontario, Quebec, Mexico and Argentina.

One of the highlighted services that Walden Equipment offers is in mine hoisting, specializing in tensioning services for small and large mine hoists. Walden has completed many mine hoist rope installations across Canada and the United States. Walden has worked with all the major mining companies and contractors and was recently contracted to rope one of the world largest cranes.

**PRODUCTS / SERVICES / TECHNOLOGIES / EQUIPMENT**

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>Mine Utility Equipment</td>
<td>Walden Equipment is the leading distributor of J&amp;S Manufacturing’s high-quality, dependable and durable machines. The machines J&amp;S manufactures are extremely mechanically friendly, maintenance and repairs are cost efficient, the machines are easy to troubleshoot and best of all, every piece of equipment is simple to operate and is designed for the end user. Vehicles include: multi-cassette trucks, personnel carriers, transmixers, scissor boom trucks, easy fan handers, SLX 5000, boom trucks, anfo loaders, vacuum trucks and narrow-vein utility vehicles.</td>
</tr>
<tr>
<td>Custom Built Mine Utility Equipment</td>
<td>Walden Equipment and J&amp;S Manufacturing have been building custom-built equipment for the mining industry specific to your production requirements. All mine equipment parts.</td>
</tr>
<tr>
<td>Mining Equipment Parts</td>
<td>Walden Equipment is one of Ontario’s largest suppliers of mine hoists, winches and tuggers. Walden Equipment offers a diverse selection of mine hoisting equipment, including man lifting units. Our selection of mine hoists includes the smallest of air up to 85,000 lbs. electric winches. Walden Equipment hoisting services include winch and tugger recertification and testing. We have completed recertification of all the major mining companies, including Vale, Xstrata, Goldcorp, Dumas Mining, Redpath Mining, and Cementation, to name a few. Walden offers tensioning services for mine rope change out and installation. Walden Equipment has worked in Canada and throughout the United States performing tensioning work, and is known as one of the leading tensioning service providers. Walden Equipment hosts five tensioning units with rope tensioning capabilities of up to 4.5” dia. rope.</td>
</tr>
<tr>
<td>Specialty Services</td>
<td>Our specialty service including hoisting, tensioning, winching and specialty application work. Walden Equipment’s team can assist with repairs, maintenance schedules, changer overs, rebuilds, hoisting services and much more.</td>
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**MEXICO**

Sales/Local Presence: Sales Representatives with National coverage

Maintenance Facilities in Zacatecas Since 2011 Mine operation

**CONTACT INFORMATION**

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